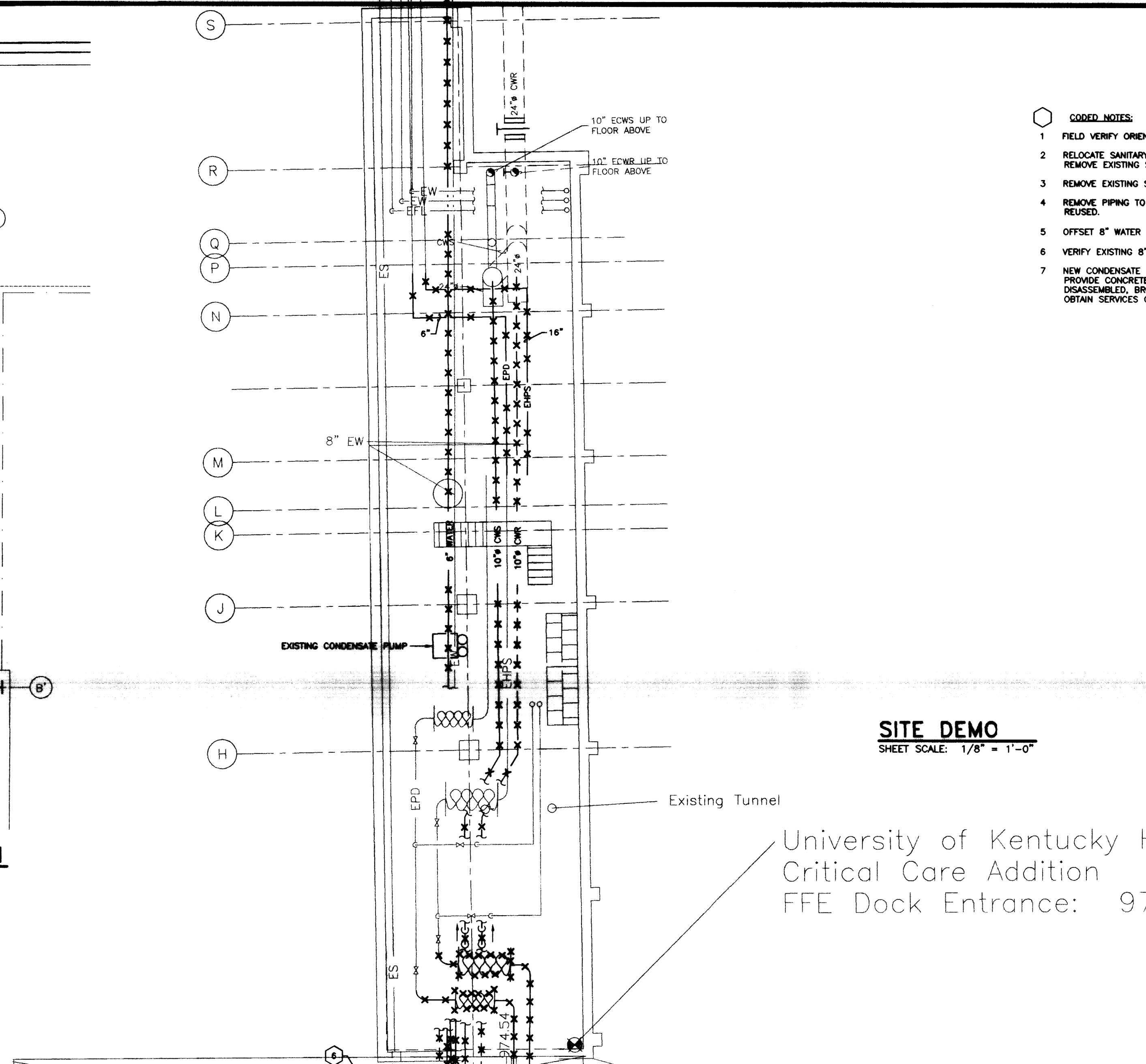


**ENLARGED STAIR TOWER PIPING PLAN**  
SHEET SCALE: 1/4" = 1'-0"



**SITE DEMO**  
SHEET SCALE: 1/8" = 1'-0"

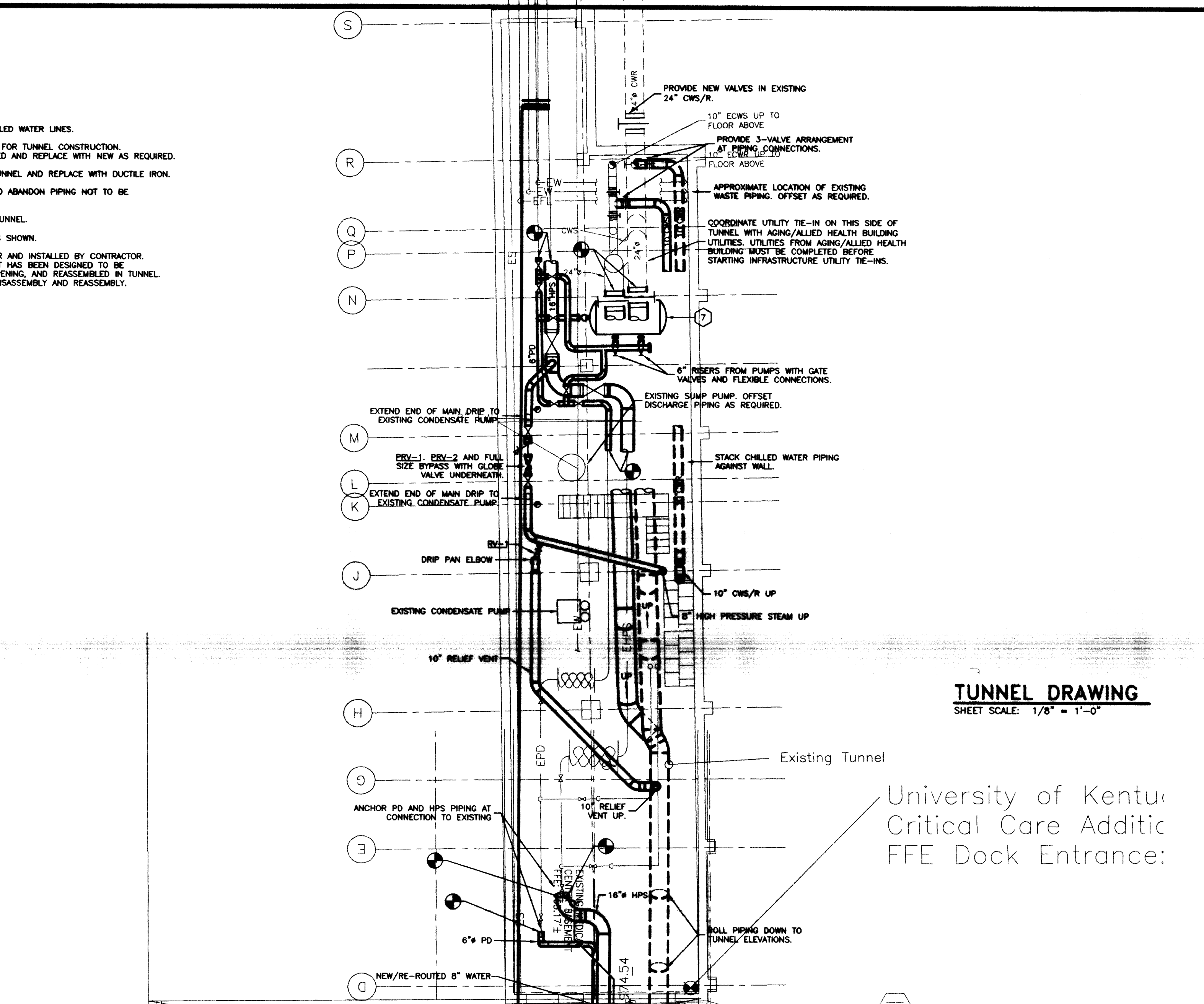
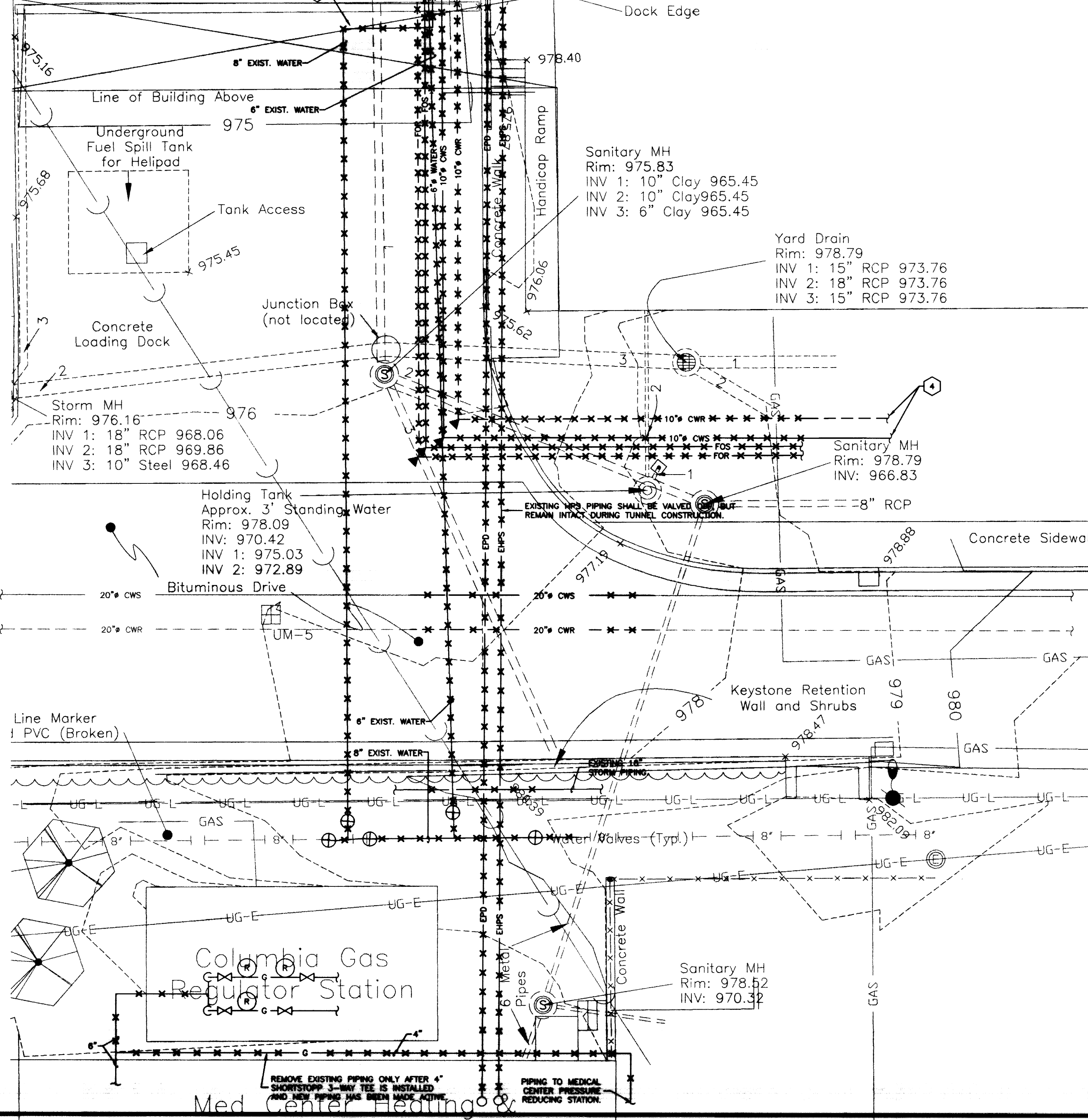
University of Kentucky +  
Critical Care Addition  
FFE Dock Entrance: 97

RECORD DRAWINGS DATE 11/10/03

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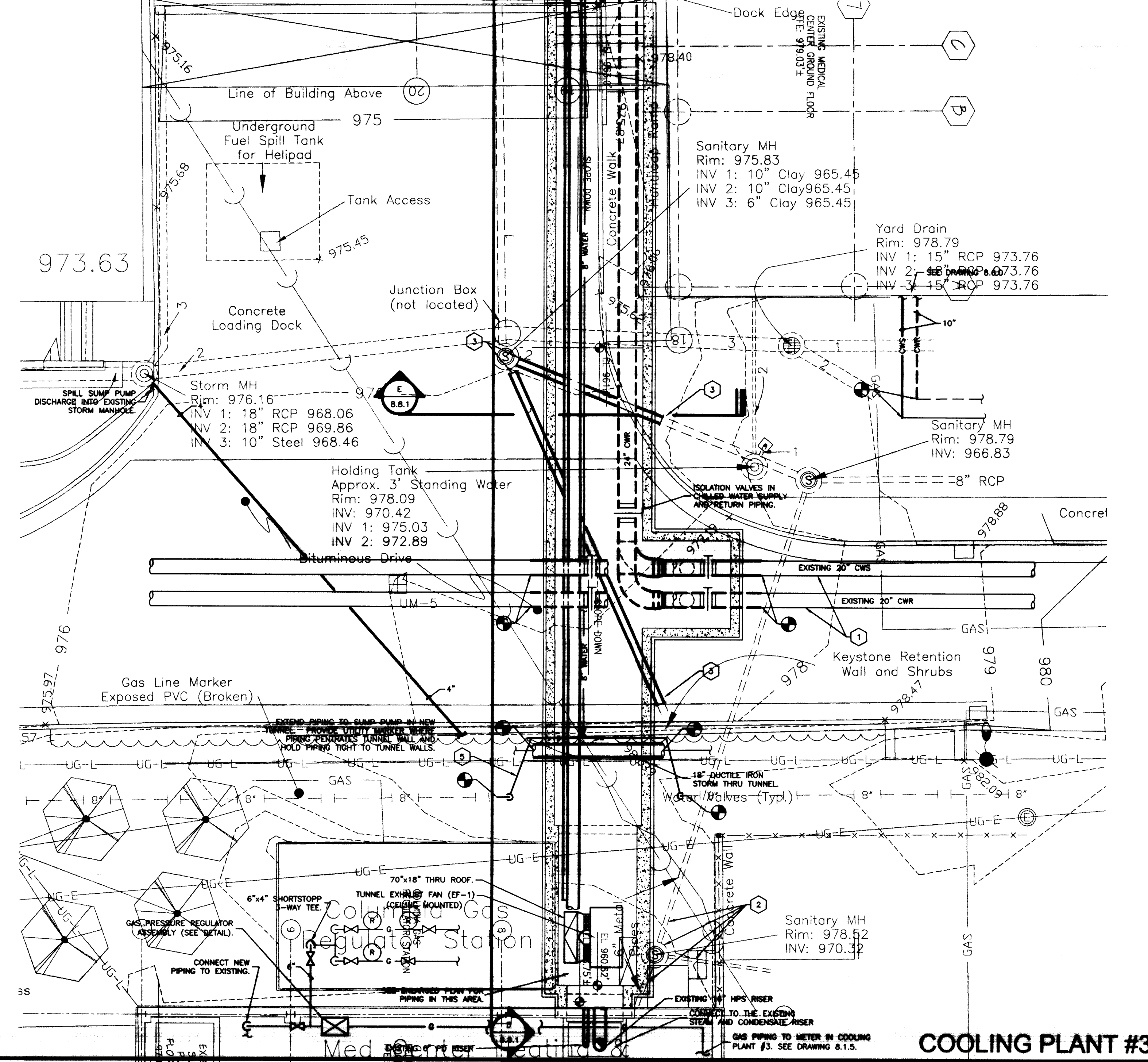
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**TUNNEL DRAWING**  
SHEET SCALE: 1/8" = 1'-0"

University of Kentu  
Critical Care Additc  
FFE Dock Entrance:



**COOLING PLANT #3**

- CODED NOTES:**
1. FIELD VERIFY ORIENTATION OF EXISTING CHILLED WATER LINES.
  2. RELOCATE SANITARY MANHOLE AS REQUIRED FOR TUNNEL CONSTRUCTION. REMOVE EXISTING SANITARY LINES AS NEEDED AND REPLACE WITH NEW AS REQUIRED.
  3. REMOVE EXISTING SANITARY TO LIMITS OF TUNNEL AND REPLACE WITH DUCTILE IRON.
  4. REMOVE PIPING TO POINTS SHOWN. CAP AND ABANDON PIPING NOT TO BE REUSED.
  5. OFFSET 8" WATER LINE TO RUN THROUGH TUNNEL.
  6. VERIFY EXISTING 8" WATER LINE OFFSETS AS SHOWN.
  7. NEW CONDENSATE UNIT PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. PROVIDE CONCRETE HOUSING/PAVING PAD UNIT HAS BEEN DESIGNED TO BE DISASSEMBLED, BROUGHT THRU EXISTING OPENING, AND REASSEMBLED IN TUNNEL. OBTAIN SERVICES OF MANUFACTURER FOR DISASSEMBLY AND REASSEMBLY.

**CJM**  
CHRISMAN MILLER WOODFORD, INC.  
200 WEST BROADWAY  
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(606) 258-1000

**SF**  
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Consulting Engineers, Inc.  
3204 Lanesboro Drive  
Lexington, Kentucky 40517  
(606) 258-1000

STATE OF KENTUCKY  
REGISTERED PROFESSIONAL ENGINEER  
NO. 10388  
EXPIRES 12/31/04

**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

COOLING PLANT #3 - H.V.A.C. DEMO NEW WORK - TUNNEL PLAN

SHT. PROJECT TITLE

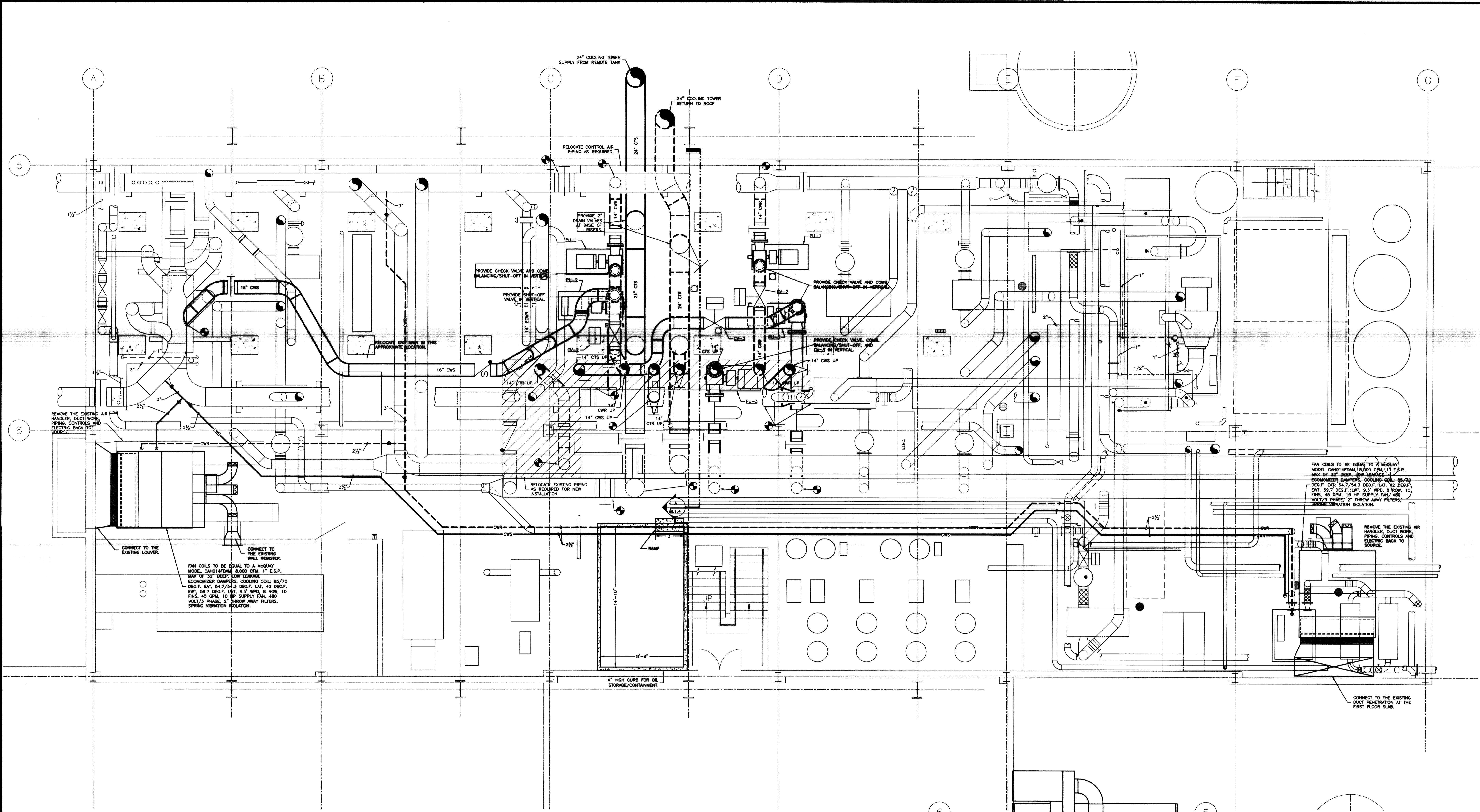
DATE: DECEMBER, 2000  
DRAWN BY: MFD  
CHECKED BY: COK  
REVISED:

DATE: 12/30/01  
1. 12/30/01 ADDENDUM  
2. 1/24/02 C.M. PIPING  
3. 1/24/02 C.M. PIPING  
4. 1/24/02 C.M. PIPING  
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6. 1/24/02 C.M. PIPING  
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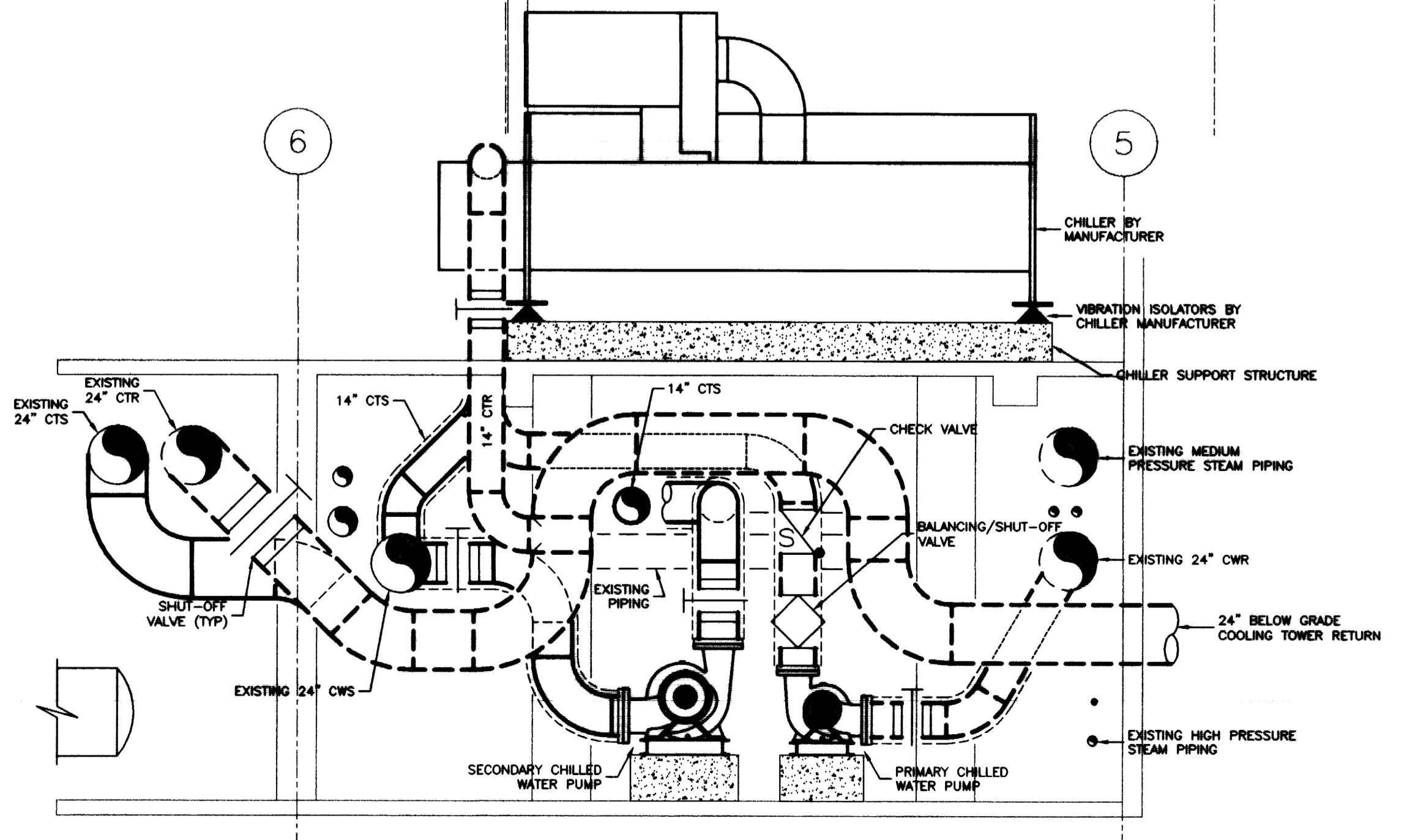
**8.1.3**

PROJECT NUMBER  
99024.02

PROJECT # 174 C-1 25488



**H.V.A.C. NEW WORK - BASEMENT PLAN**  
SHEET SCALE: 1/4" = 1'-0"



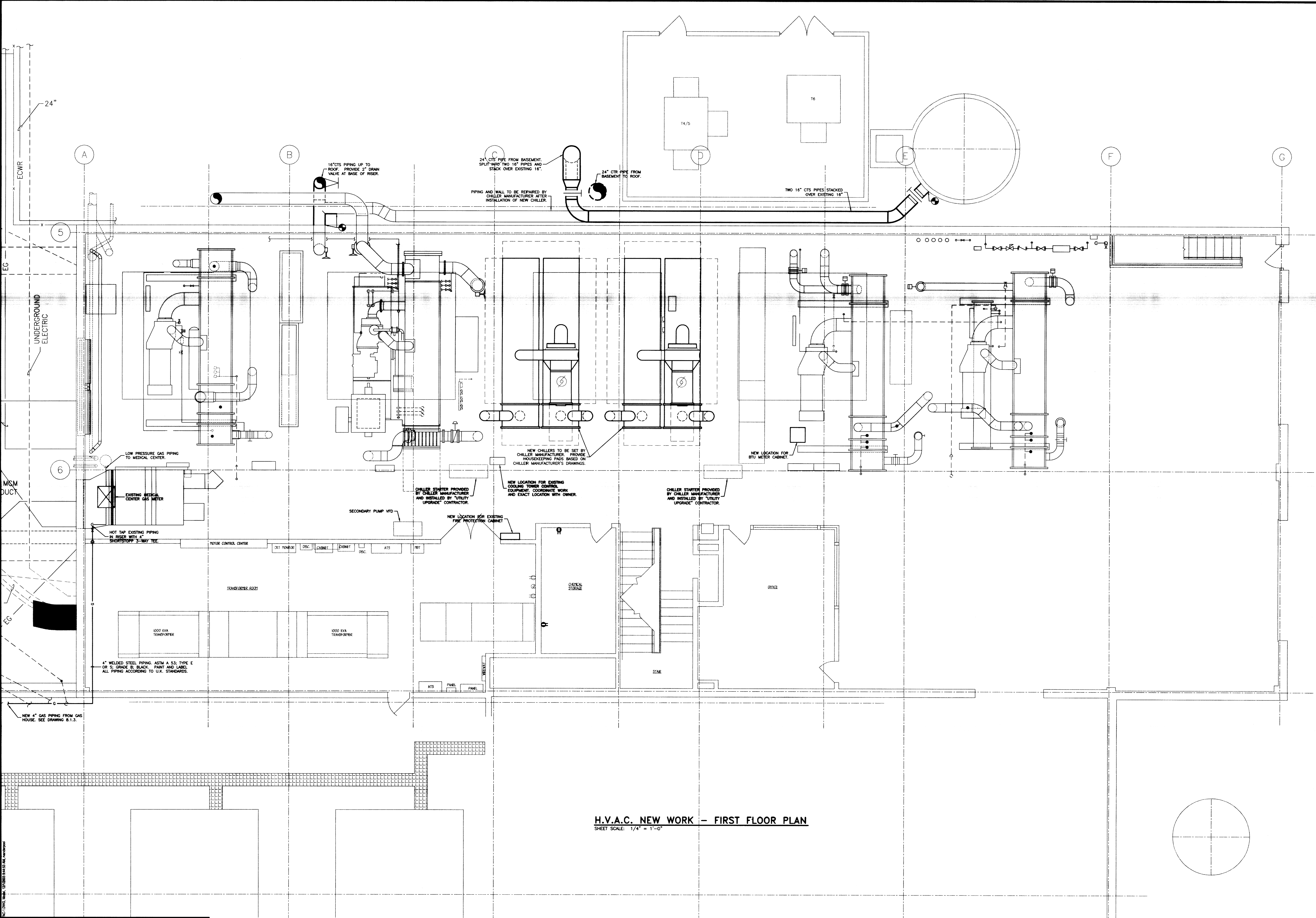
**SECTION**  
SHEET SCALE: 1/4" = 1'-0"

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**H.V.A.C. NEW WORK - BASEMENT PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT.	PROJECT TITLE
DATE: DECEMBER, 2000	
DRAWN BY: CCK	
CHECKED BY: CCK	
REVISED:	
DATE	DESCRIPTION
12/29/01	ADDENDUM
3/14/02	RELOCATE SL
4/7/02	COOLING AWAY
<b>8.1.4</b>	<b>SHEET NUMBER</b>
PROJECT NUMBER	99024.02
Doc #	



**H.V.A.C. NEW WORK - FIRST FLOOR PLAN**  
SHEET SCALE: 1/4" = 1'-0"

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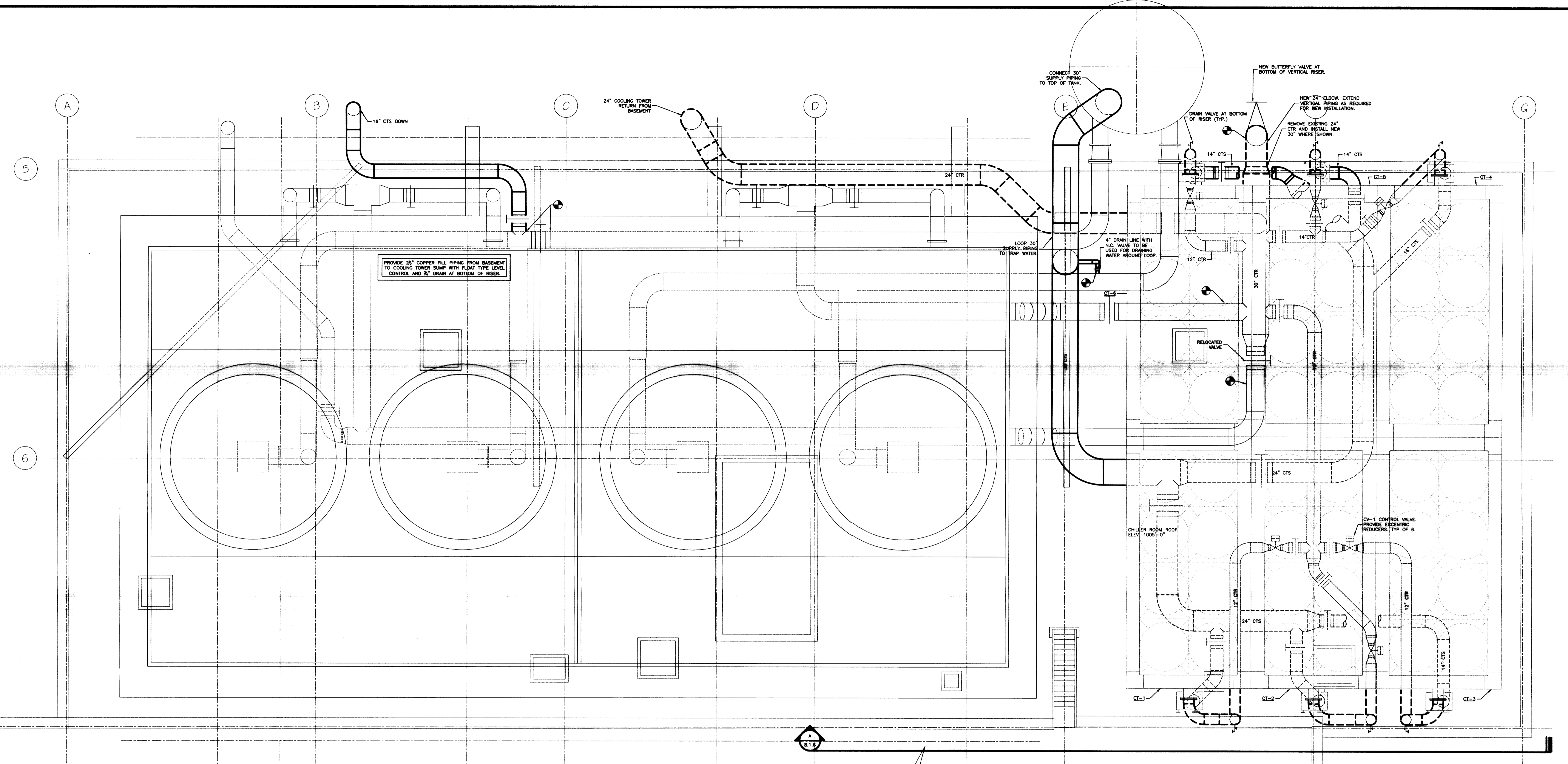
H.V.A.C. NEW WORK - FIRST FLOOR PLAN  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE	DECEMBER, 2000
DRAWN BY:	COK
CHECKED BY:	COK
REVISED:	
1 2/2/01 ADDENDUM	
2 3/2/01 ADDENDUM	
3 8/3/01 STARTER RENT	
4 12/4/01 GAS PIPING	
SHEET NUMBER	
<b>8.1.5</b>	
PROJECT NUMBER	99024.02
Cab #	SLot
174	C-1

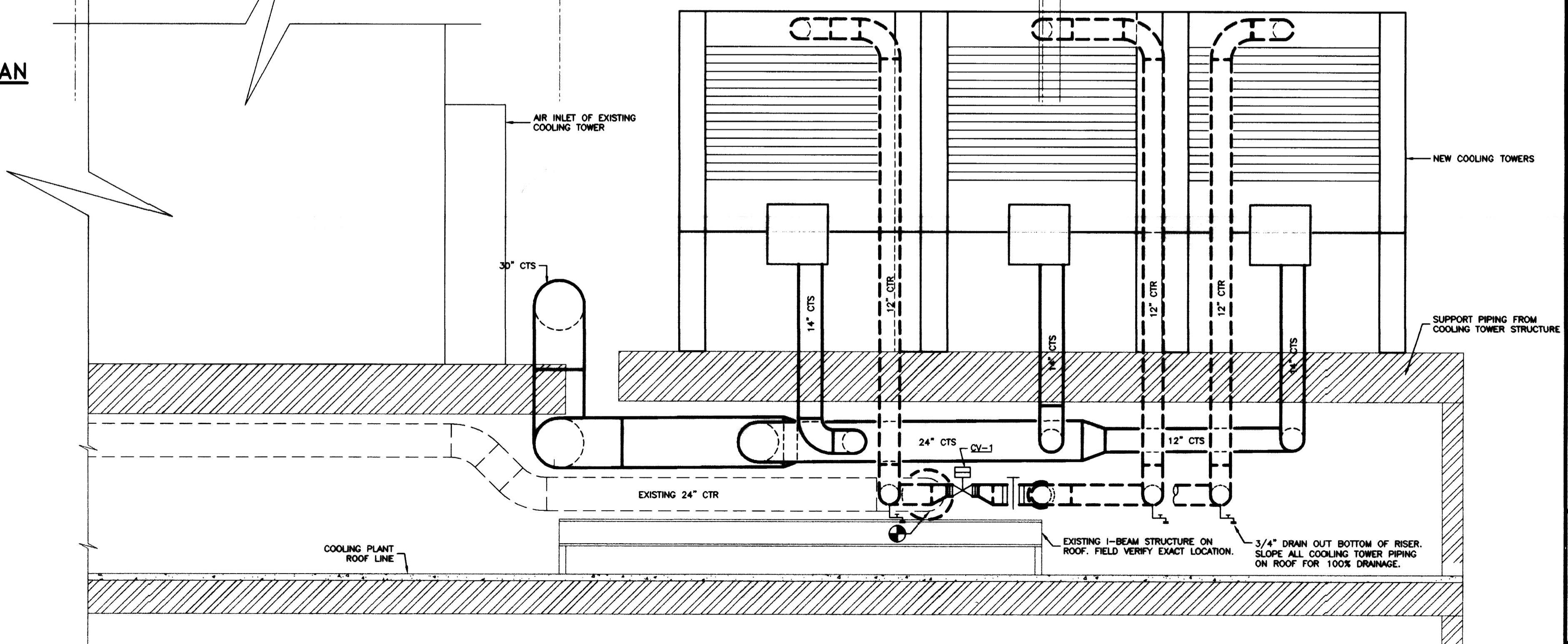
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H.V.A.C. NEW WORK - ROOF PLAN  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT: PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: COK  
 CHECKED BY: COK  
 REVISED:  
 DATE: 3/2/01 ADDENDUM  
 1 8/2/01 SHOP DRG REV  
 2 2/2/02 FIELD REV  
 3 2/11/02 FIELD REV  
 SHEET NUMBER  
 8.1.6  
 PROJECT NUMBER  
 99024.02  
 SHEET NUMBER  
 174 C-1 25491  
 Cab # 174 C-1 25491  
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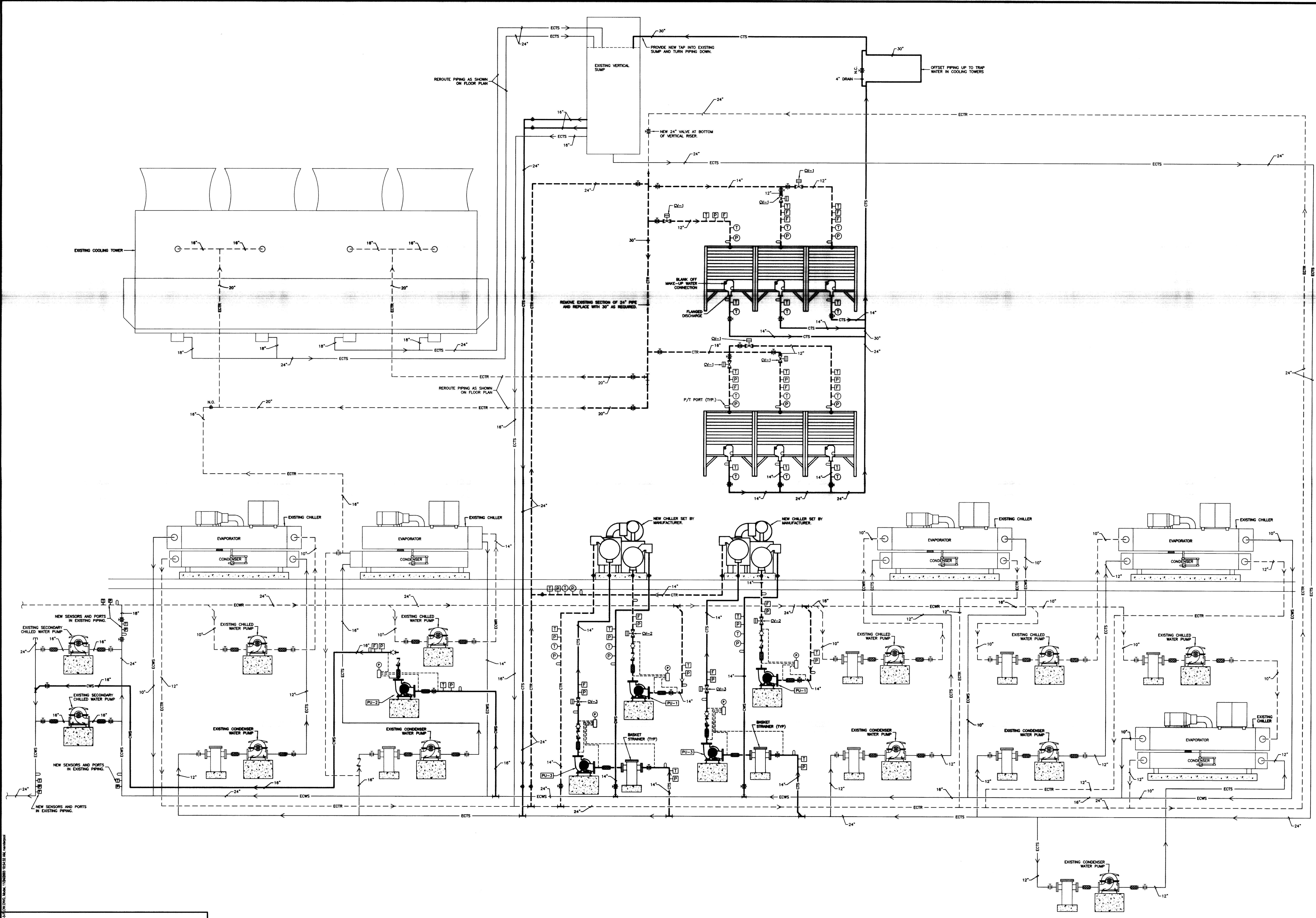
H.V.A.C. NEW WORK - ROOF PLAN  
 SHEET SCALE: 1/4" = 1'-0"



COOLING TOWER SECTION  
 SHEET SCALE: 1/4" = 1'-0"

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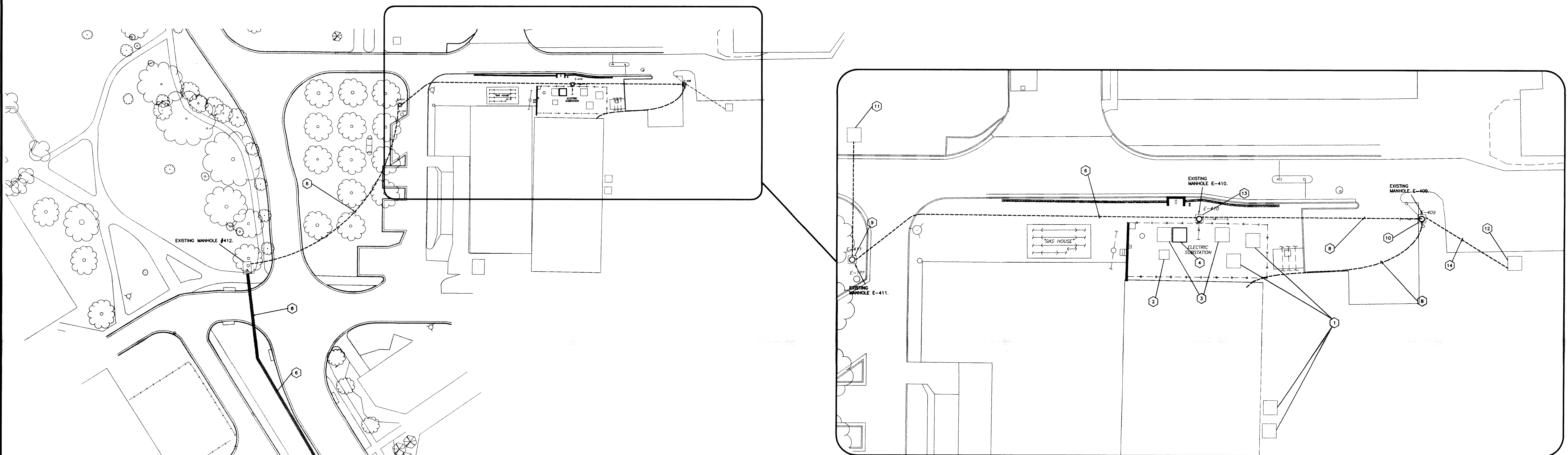
FAILURE TO ADHERE TO THESE DOCUMENTS OR TO CERTAIN CONDITIONS OF ALL CONTRACTS AND AGREEMENTS FOR THE PROJECT DESCRIBED HEREIN SHALL BE AT THE RISK OF THE USER. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

**H.V.A.C. FLOW DIAGRAM**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

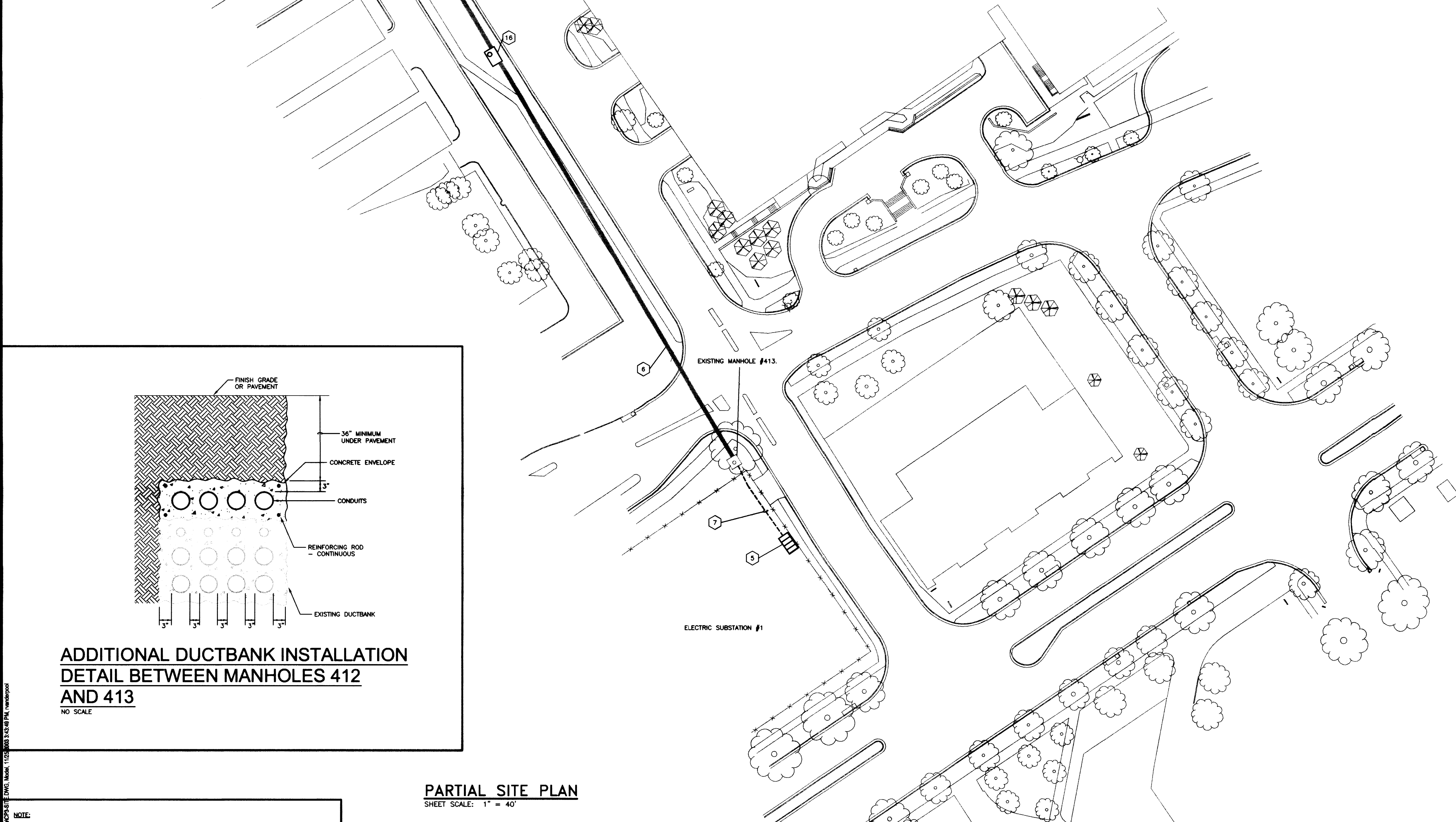
SHT. PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: CCK  
 CHECKED BY: CCK  
 REVISED: DATE

SHEET NUMBER  
**8.1.7**

PROJECT NUMBER  
 99024.02



**ALLIS CHALMER SUBSTATION DETAIL**  
SHEET SCALE: 1" = 20'



**ADDITIONAL DUCTBANK INSTALLATION  
DETAIL BETWEEN MANHOLES  
412 AND 413**  
NO SCALE

**PARTIAL SITE PLAN**  
SHEET SCALE: 1" = 40'

- CODED NOTES:**
- EXISTING TRANSFORMERS FEEDING HEATING & COOLING PLANT CHILLERS SHALL BE CONNECTED TO NEW HEATING/COOLING PLANT SWITCHGEAR.
  - REMOVE EXISTING PAD MOUNTED 3-WAY VACUUM SWITCH.
  - REMOVE EXISTING 12470/4160 VOLT TRANSFORMERS AT ALLIS CHALMER SUBSTATION.
  - NEW CHILLER TRANSFORMER.
  - NEW METALCLAD SWITCHGEAR AT SUBSTATION #1. SEE ENLARGED PLAN OF SUBSTATION ON SHEET 9.1.8.
  - TWO NEW FEEDERS IN NEW DUCTBANK EACH CONSISTING OF 3 #500 MCM'S (15KV) AND 1 #2000 MCM (800V) GROUND.
  - NEW PRIMARY DUCTBANK CONSISTING OF FOUR 8" CONDUITS FROM MANHOLE E-413 TO NEW METALCLAD SWITCHGEAR. ENCLOSE NEW DUCTBANK INSTALLATION AREA AS REQUIRED FOR PUBLIC SAFETY.
  - TWO NEW FEEDERS IN EXISTING DUCTBANK SPARE CONDUITS. SEE ELECTRICAL 9.1.6 FOR FEEDER SIZES.
  - REMOVE EXISTING 3-WAY SWITCH IN MANHOLE E-411. SEE SHEET 9.1.6 FOR DETAILS.
  - REMOVE EXISTING 4-WAY SWITCH IN MANHOLE E-409. SEE SHEET 9.1.6 FOR DETAILS.
  - EXISTING TRANSFORMER FOR PARKING STRUCTURE.
  - EXISTING TRANSFORMER FOR MRI FACILITY.
  - INSTALL NEW 4-WAY SP8 SWITCH IN MANHOLE E-410. SEE SHEET 9.1.6 FOR DETAILS.
  - INSTALL NEW UNDERGROUND FEEDER TO EXISTING MRI TRANSFORMER CONSISTING OF 3 #4/0'S (15KV) AND 1 #2 GROUND IN ONE 4" CONDUIT. SEE SHEET 9.1.7 FOR DUCTBANK CONSTRUCTION DETAILS. EXISTING TRANSFORMER IS DUAL-WOUND. CONNECT NEW FEEDER TO 15KV WINDING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - NEW PRIMARY DUCTBANK CONSISTING OF FOUR 5" CONDUITS ARRANGED IN A SINGLE ROW ATOP THE EXISTING DUCTBANK.
  - NEW 8'X12' ELECTRIC MANHOLE. CONSTRUCT PER DETAILS ON STRUCTURAL DRAWINGS. FORM MANHOLE TO ENCOMPASS EXISTING DUCTBANK AND CHP AWAY CONCRETE FROM DUCTBANK. PROVIDE CABLE RACK SUPPORTS FOR EXISTING AND NEW CABLING.

- GENERAL NOTES - SITE UTILITIES**
- EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
  - TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
  - LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - INSTALL UNDERGROUND FEEDERS WITH 3'-0" MINIMUM COVER.
  - VERIFY EXACT SIZES AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH APPROPRIATE UTILITY COMPANIES BEFORE DOING ANY EXCAVATING.
  - THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
  - ALL CURB AND SIDEWALK CUTS SHALL BE SAW CUT.
  - CONTRACTOR RESPONSIBLE FOR REPAIRING SITE WORK TO MATCH THOSE CONDITIONS EXISTING PRIOR TO THE START OF WORK.

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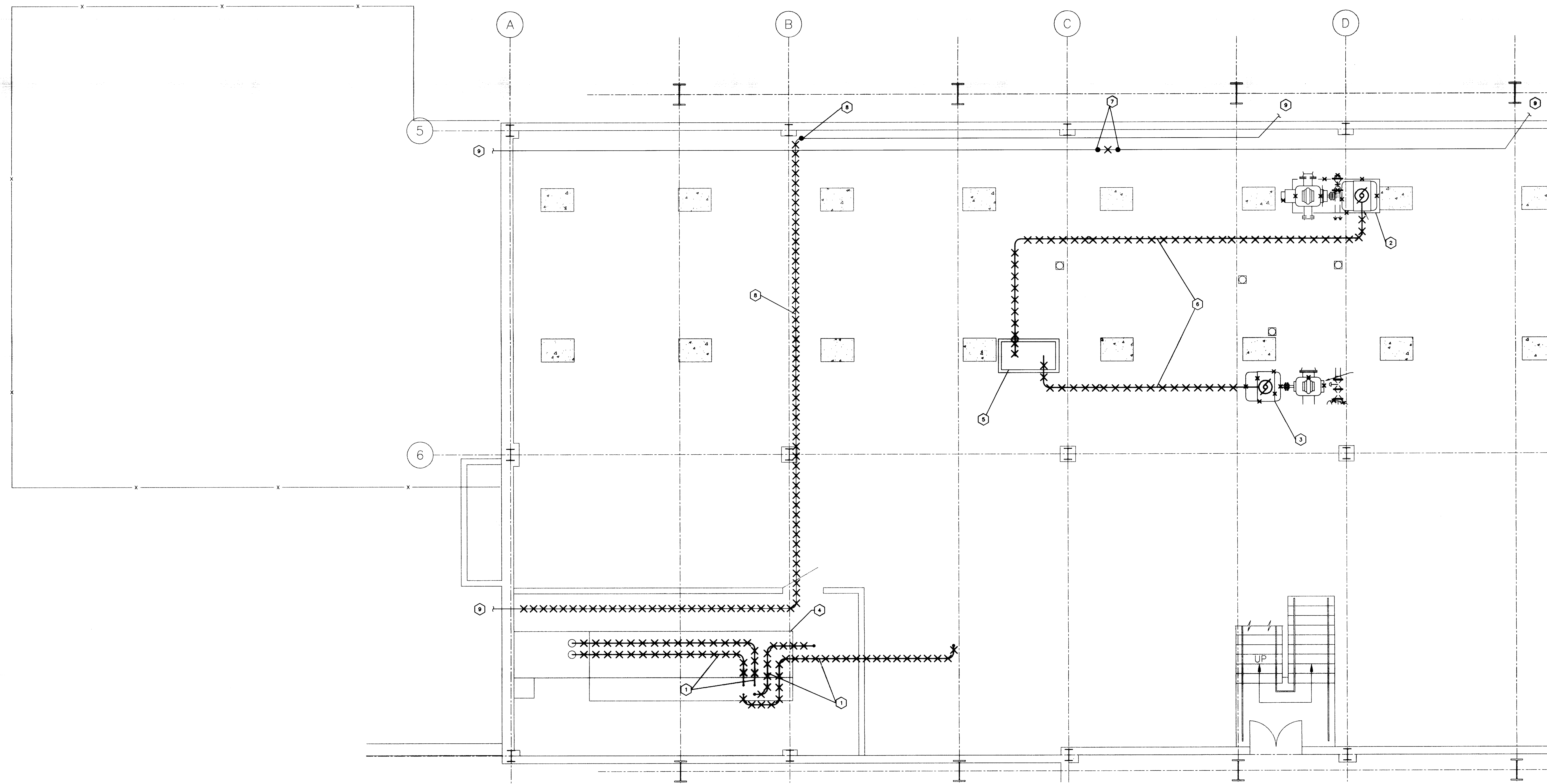
RECORD DRAWINGS DATE 11/10/03  
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**SITE PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT.	PROJECT TITLE
DATE:	DECEMBER, 2000
DRAWN BY:	WPW
CHECKED BY:	GGC
REVISED:	
DATE	ADDENDUM #2
7/7/77	7/7/77
11/13/02	ADDED DUCTBANK FEEDER CHAM
1/2/02	
SHEET NUMBER	
<b>9.0.0</b>	
PROJECT NUMBER	99024.02
174	C-1
25500	Document

- CODED NOTES:**
- 1 REMOVE FEEDERS TO UNIT SUBSTATION ON FIRST FLOOR AFTER INSTALLING TEMPORARY FEEDER. SEE SHEET 9.1.2 FOR DETAILS.
  - 2 125 HP PUMP UNIT TO BE REPLACED.
  - 3 100 HP PUMP UNIT TO BE REPLACED.
  - 4 REMOVE EXISTING 4160V DISTRIBUTION SWITCHGEAR WHEN ALL LOADS HAVE BEEN REMOVED.
  - 5 EXISTING MOTOR CONTROL CENTER TO REMAIN. RELABEL PUMP STARTERS AS SPARES.
  - 6 REMOVE EXISTING MOTOR FEEDERS.
  - 7 EXISTING FEEDER TO CHILLER #6. REMOVE SECTION OF CONDUIT AT LOCATIONS INDICATED FOR EXTENSION TO NEW 15KV SWITCHBOARD. SEE SHEET 9.1.2 FOR DETAILS ON LOCATIONS.
  - 8 EXISTING FEEDER FOR CHILLER #4/5. REMOVE CABLING AND CONDUIT TO POINT INDICATED.



**POWER PLAN - DEMOLITION - BASEMENT**  
 SHEET SCALE: 1/4" = 1'-0"

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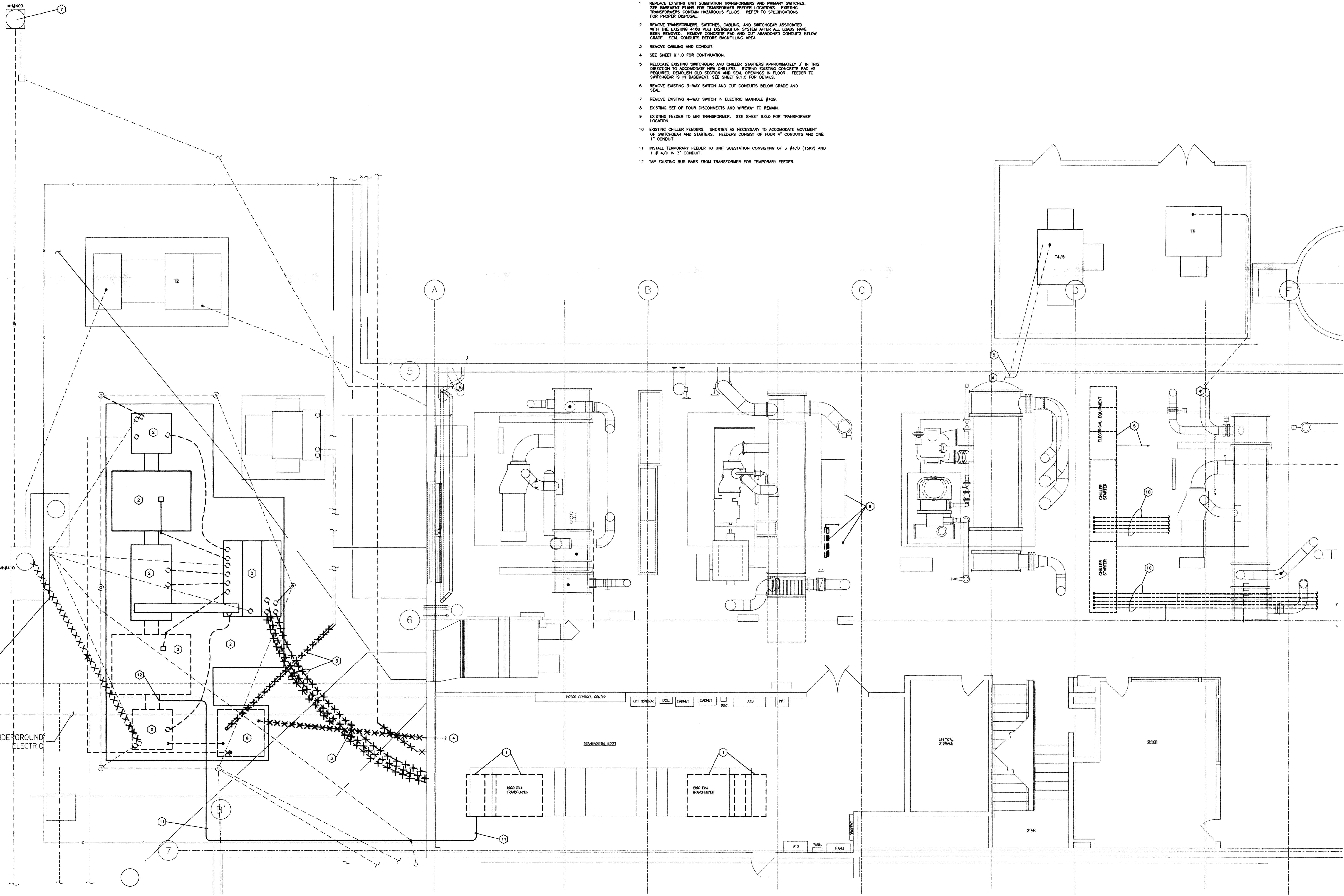
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FAILURE TO MAKE BY THE CONTRACTOR THE NECESSARY CHECKS FOR THE PROPER INSTALLATION OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

**POWER - DEMOLITION - BASEMENT PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: WFW  
 CHECKED BY: GGC  
 REVISED: DATE

SHEET NUMBER  
**9.1.0**  
 PROJECT NUMBER  
 99024.02  
 Cdb #



MANHOLE

UNDERGROUND ELECTRIC

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

- CODED NOTES:
- 1 REPLACE EXISTING UNIT SUBSTATION TRANSFORMERS AND PRIMARY SWITCHES. SEE BASEMENT PLANS FOR TRANSFORMER FEEDER LOCATIONS. EXISTING TRANSFORMERS CONTAIN HAZARDOUS FLUIDS. REFER TO SPECIFICATIONS FOR PROPER DISPOSAL.
  - 2 REMOVE TRANSFORMERS, SWITCHES, CABLING, AND SWITCHGEAR ASSOCIATED WITH THE EXISTING 480 VOLT DISTRIBUTION SYSTEM AFTER ALL LOADS HAVE BEEN REMOVED. REMOVE CONCRETE PAD AND CUT ABANDONED CONDUITS BELOW GRADE. SEAL CONDUITS BEFORE BACKFILLING AREA.
  - 3 REMOVE CABLING AND CONDUIT.
  - 4 SEE SHEET 9.1.0 FOR CONTINUATION.
  - 5 RELOCATE EXISTING SWITCHGEAR AND CHILLER STARTERS APPROXIMATELY 3' IN THIS DIRECTION TO ACCOMMODATE NEW CHILLERS. EXTEND EXISTING CONCRETE PAD AS REQUIRED. DEMOLISH OLD SECTION AND SEAL OPENINGS IN FLOOR. FEEDER TO SWITCHGEAR IS IN BASEMENT. SEE SHEET 9.1.0 FOR DETAILS.
  - 6 REMOVE EXISTING 3-WAY SWITCH AND CUT CONDUITS BELOW GRADE AND SEAL.
  - 7 REMOVE EXISTING 4-WAY SWITCH IN ELECTRIC MANHOLE #409.
  - 8 EXISTING SET OF FOUR DISCONNECTS AND WIRING TO REMAIN.
  - 9 EXISTING FEEDER TO MRI TRANSFORMER. SEE SHEET 9.0.0 FOR TRANSFORMER LOCATION.
  - 10 EXISTING CHILLER FEEDERS. SHORTEN AS NECESSARY TO ACCOMMODATE MOVEMENT OF SWITCHGEAR AND STARTERS. FEEDERS CONSIST OF FOUR 4" CONDUITS AND ONE 1" CONDUIT.
  - 11 INSTALL TEMPORARY FEEDER TO UNIT SUBSTATION CONSISTING OF 3 #4/0 (15KV) AND 1 # 4/0 IN 3" CONDUIT.
  - 12 TAP EXISTING BUS BARS FROM TRANSFORMER FOR TEMPORARY FEEDER.

**POWER PLAN - DEMOLITION - FIRST FLOOR**  
SHEET SCALE: 1/4" = 1'-0"

POWER - DEMOLITION - 1ST FLOOR PLAN  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER 2000  
DRAWN BY: WPW  
CHECKED BY: GGC  
REVISED:  
DATE 7/7/02 ADDENDUM  
8/3/01 REVISION #2  
1/31/02 REVISION #3

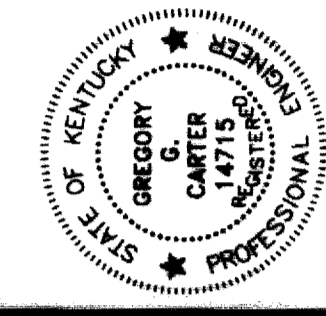
SHEET NUMBER  
**9.1.1**

PROJECT NUMBER  
99024.02

174 C-2 25502

**CJM**  
CHRISTMAN, MILLER, WOODRUFF, INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
205 S. BROADWAY  
LEWISTON, KENTUCKY 40363  
(606) 254-8623

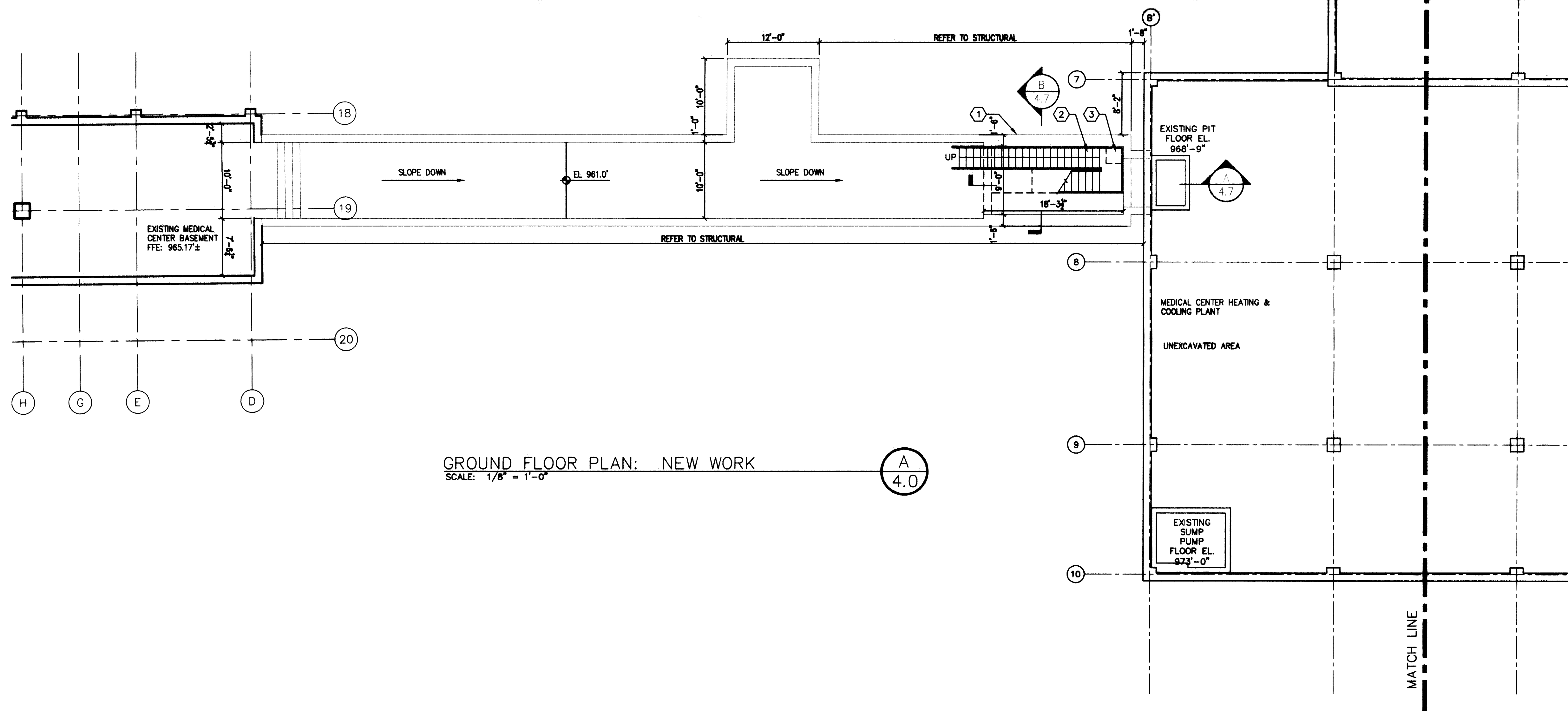
**SF**  
Staggs and Fisher  
Consulting Engineers, Inc.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
Lexington, Kentucky 40517



ALL WORK TO BE DONE BY CONTRACTOR.  
DESIGN DOCUMENTS OR TO OBTAIN ORDINANCE.  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.  
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COOLING PLANT #3





GROUND FLOOR PLAN: NEW WORK  
SCALE: 1/8" = 1'-0"

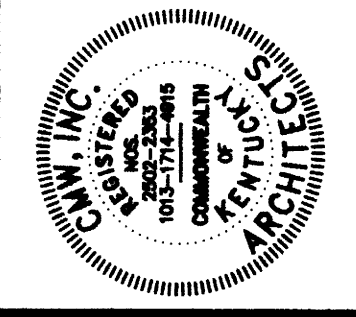
**GENERAL NOTES**

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURAL DRAWINGS FOR TUNNEL DIMENSIONS AND DETAILS.

**SHEET NOTES**

1. CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER.
2. STEEL STAIR: TREADS AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO ENLARGED PLAN A/4.6.
3. SUMP PIT AND PUMP: REFER TO STRUCTURAL AND MECHANICAL.

**CMW**  
CHARLES W. MILLER, REGISTERED ARCHITECT  
400 E. VINE STREET, LEXINGTON, KENTUCKY 40502  
(606) 254-8223



FOR USE TO BE MADE BY THE CONTRACTOR TO OBTAIN CLEARANCE. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND OBSTRUCTIONS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND OBSTRUCTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT AREAS AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS TO ORIGINAL OR BETTER CONDITION AFTER COMPLETION OF WORK.

**CRITICAL CARE BASEMENT PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE

DATE: DECEMBER, 2000  
DRAWN BY: M.W.  
CHECKED BY: B.D.  
REVISED:  
DATE 1  
2  
4

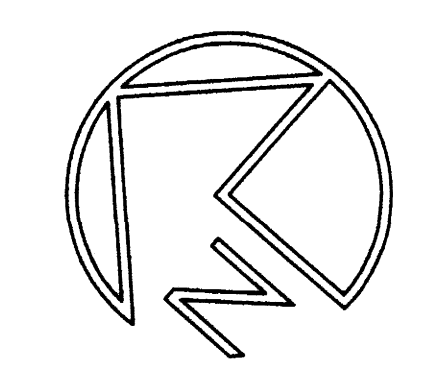
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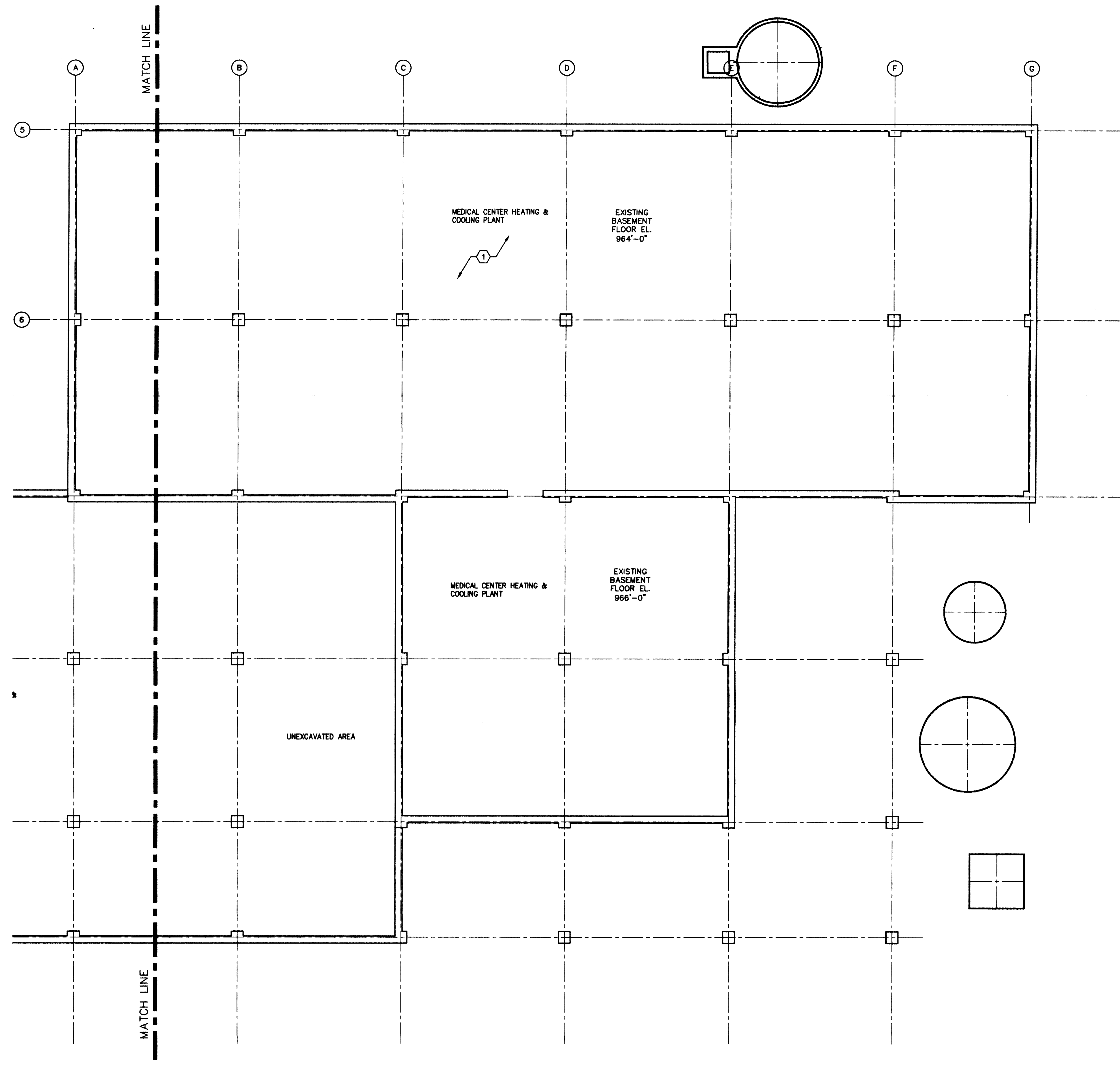
PROJECT NUMBER  
99024.02

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.





**BASEMENT PLAN**  
 1/8" = 1'-0"

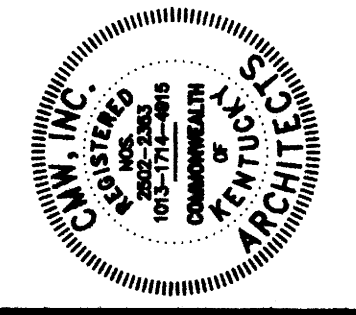
**GENERAL NOTES**

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.

**SHEET NOTES**

① REFER TO MECHANICAL DRAWINGS FOR WORK IN THIS AREA. PATCH AND REPAIR SURFACES TO ORIGINAL CONDITION AFTER INSTALLATION.

**CMW**  
 CHRISTIAN M. MILLER, WOODFORD, INC.  
 ARCHITECTURE ENGINEERING INTERIOR ARCHITECTURE  
 400 E. VINE STREET LEXINGTON, KENTUCKY 40507  
 (606) 254-6623



PERMITTED TO MAKE BY:  
 GENERAL DOCUMENTS OR  
 TO OBTAIN EXEMPTION  
 FROM ALL REQUIREMENTS OF THE STATE OF KENTUCKY  
 PROFESSIONAL ENGINEERING BOARD  
 THE BOARD HAS REVIEWED THIS DRAWING AND  
 THE ENGINEER'S SEAL IS VALID FOR THE PROJECT  
 IDENTIFIED IN THE TITLE BLOCK. THE ENGINEER  
 IS NOT RESPONSIBLE FOR ANY OTHER PROJECTS  
 IDENTIFIED IN THIS TITLE BLOCK.

**BASEMENT PLAN**  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: M.W.  
 CHECKED BY: B.O.  
 REVISED:  
 DATE 1 #  
 2 #  
 4 #  
 SHEET NUMBER  
**4.1**  
 PROJECT NUMBER  
 99024.02  
 SHEET # 174  
 DOCUMENT # 25477  
 C-1  
 174  
 25477  
 SHEET # 174  
 DOCUMENT # 25477  
 PROJECT NUMBER  
 99024.02  
 SHEET # 174  
 DOCUMENT # 25477  
 SHEET # 174  
 DOCUMENT # 25477

RECORD DRAWINGS DATE 11/20/2003  
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 CMW, INC.

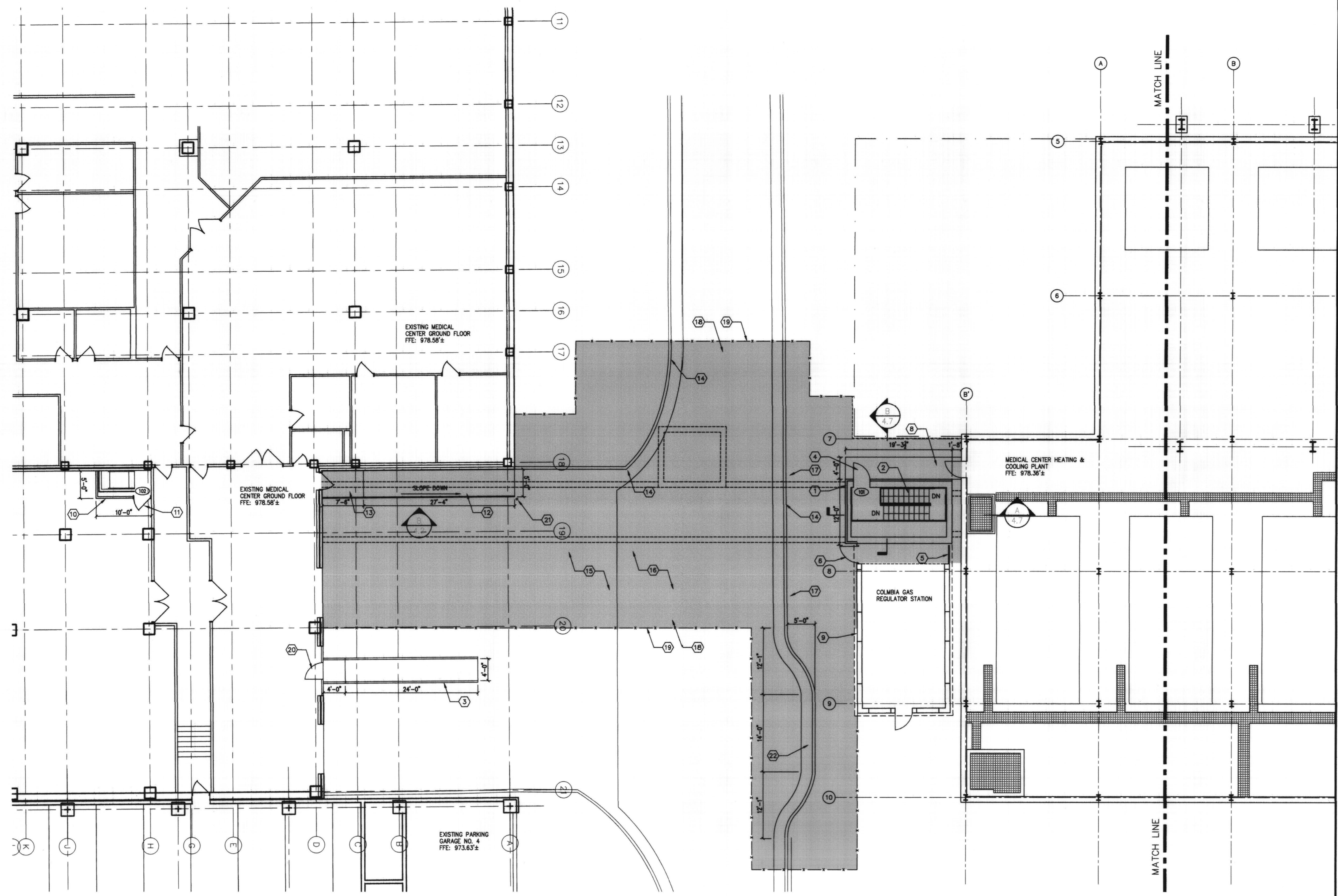


**GENERAL NOTES**

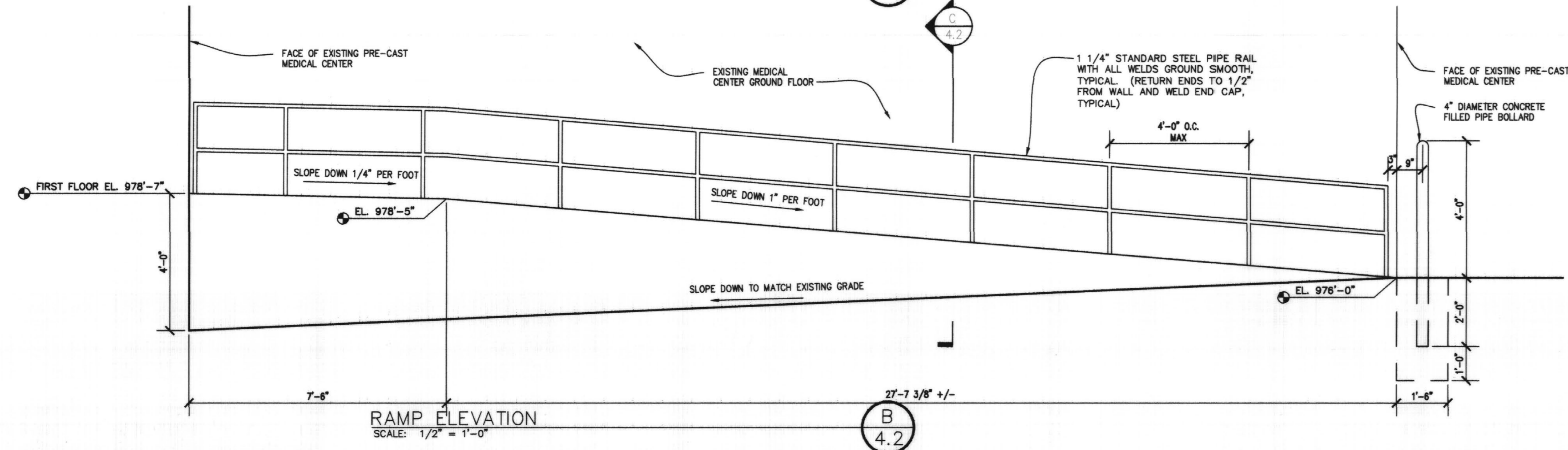
1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. REFER TO STRUCTURAL DRAWINGS FOR TUNNEL DIMENSIONS AND DETAILS.

**SHEET NOTES**

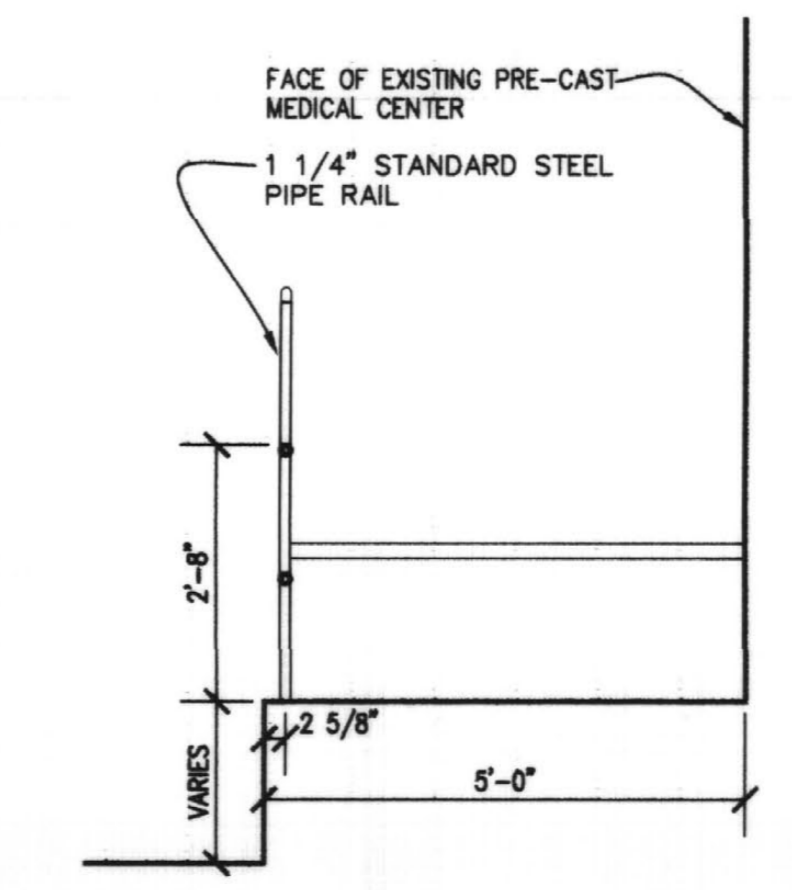
1. CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER.
2. STEEL STAIR: TREADS AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO ENLARGED PLAN A/4.7.
3. TEMPORARY WOOD RAMP: 4'-0" WIDE WITH WOOD SAFETY RAIL AND 4'-0" X 4'-0" LANDING AT TOP. SLOPE SHALL NOT EXCEED 1:8. FIELD VERIFY LENGTH.
4. PERSONNEL DOOR: HOLLOW METAL DOOR, HALF GLASS TYPE, 3'X7'. REFER TO ENLARGED PLAN B/4.7.
5. PERMANENT CHAIN LINK FENCE: 3'X7'.
6. RELOCATED DOOR AND FRAME.
7. NOT USED
8. CONCRETE SLAB: EXTERIOR SLAB ON GRADE.
9. EXISTING GAS HOUSE: EXISTING ROOF STRUCTURE SHALL BE MODIFIED AND ADJOIN ROOF OF NEW CONCRETE STAIR TOWER, REFER TO STRUCTURAL DRAWINGS.
10. 3 5/8" STEEL STUD WALL WITH 5/8" GYPSUM BOARD ON BOTH SIDES. FRAMED TO DECK ABOVE.
11. PERSONNEL DOOR: HOLLOW METAL DOOR, 3'X7'.
12. CONCRETE RAMP: CAST-IN-PLACE CONCRETE STRUCTURE, WITH NON-SLIP BROOM FINISH.
13. CONCRETE LANDING: CAST-IN-PLACE CONCRETE STRUCTURE. SLOPE 1/4" PER FOOT, AWAY FROM DOOR.
14. CONCRETE CURB TO MATCH EXISTING.
15. CONCRETE SLAB TO MATCH EXISTING.
16. ASPHALT TO MATCH EXISTING.
17. KEYSTONE RETAINING WALL AND SHRUBS TO MATCH EXISTING.
18. SHADED AREA INDICATES APPROXIMATE EXCAVATION AREA FOR TUNNEL.
19. CONSTRUCTION LIMITS: TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH.
20. TEMPORARY WOOD WALL AND DOOR.
21. 4" DIAMETER CONCRETE FILLED PIPE BOLLARD.
22. 5'-0" SET BACK OF ASPHALT, CONCRETE CURB AND BLOCK RETAINING WALL.



**GROUND FLOOR PLAN: NEW WORK**  
 SCALE: 1/8" = 1'-0"



**RAMP ELEVATION**  
 SCALE: 1/2" = 1'-0"



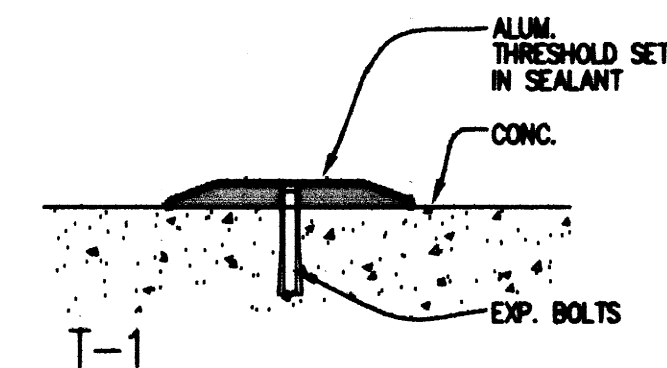
**RAMP SECTION**  
 SCALE: 1/2" = 1'-0"

**CRITICAL CARE FIRST FLOOR PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: M.W.  
 CHECKED BY: B.D.  
 REVISED:  
 DATE 1,  
 2,  
 4.

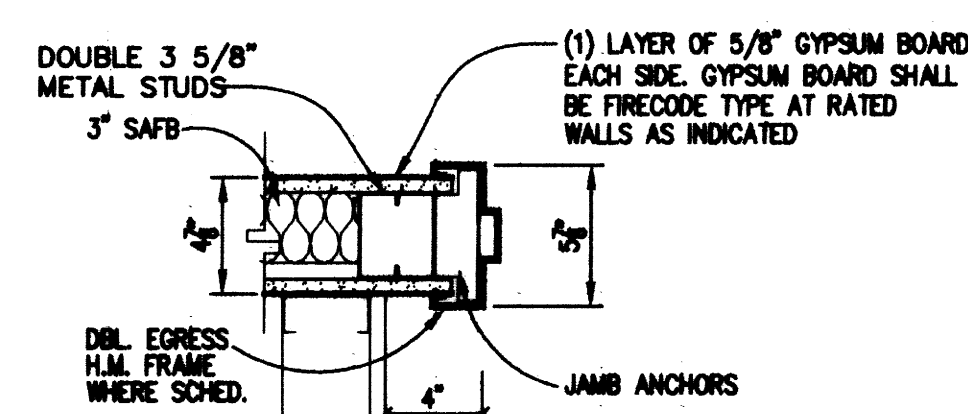
RECORD DRAWINGS DATE 11/20/2003  
 These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Architect will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
 CMW, INC.

SHEET NUMBER  
**4.2**  
 PROJECT NUMBER  
 99024.02

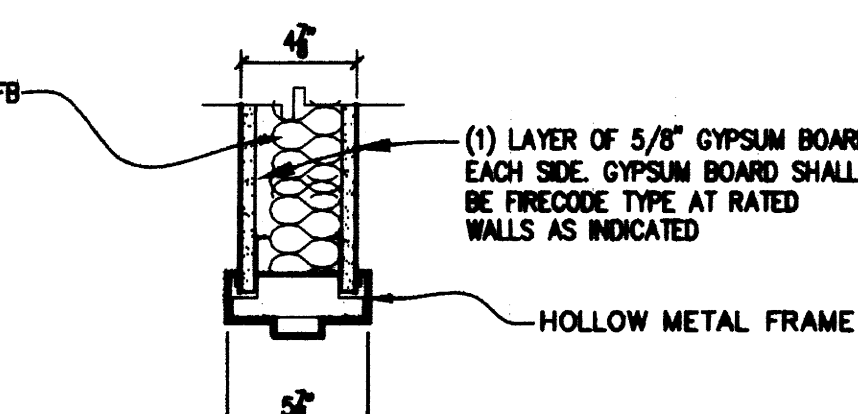


**THRESHOLD DETAILS**  
3" = 1'-0"

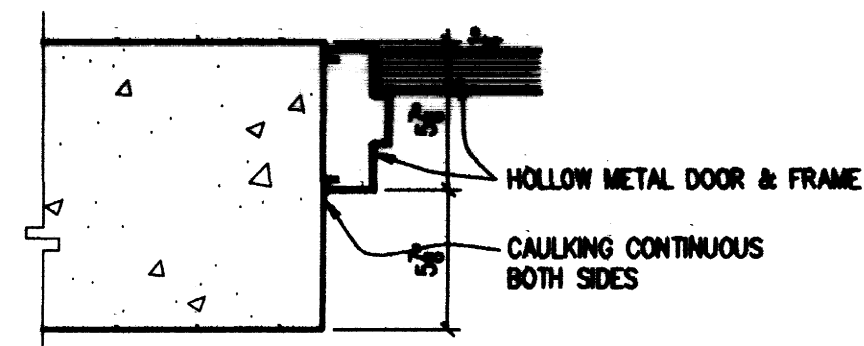
REFER TO DOOR SCHEDULE FOR LOCATION



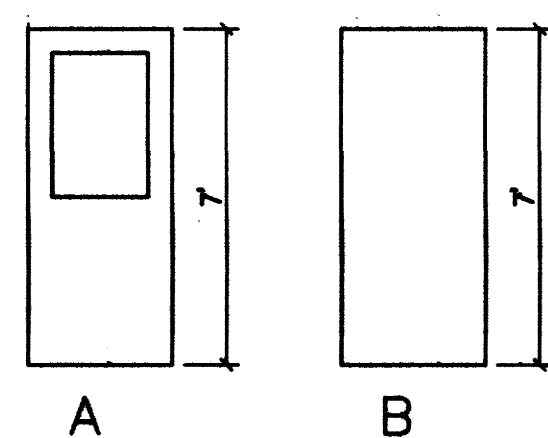
**JAMB**  
SCALE: 1-1/2" = 1'-0" (4.3)



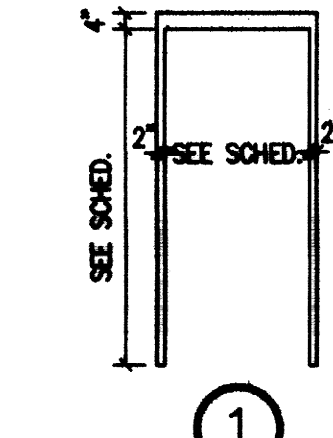
**HEAD**  
SCALE: 1-1/2" = 1'-0" (4.3)



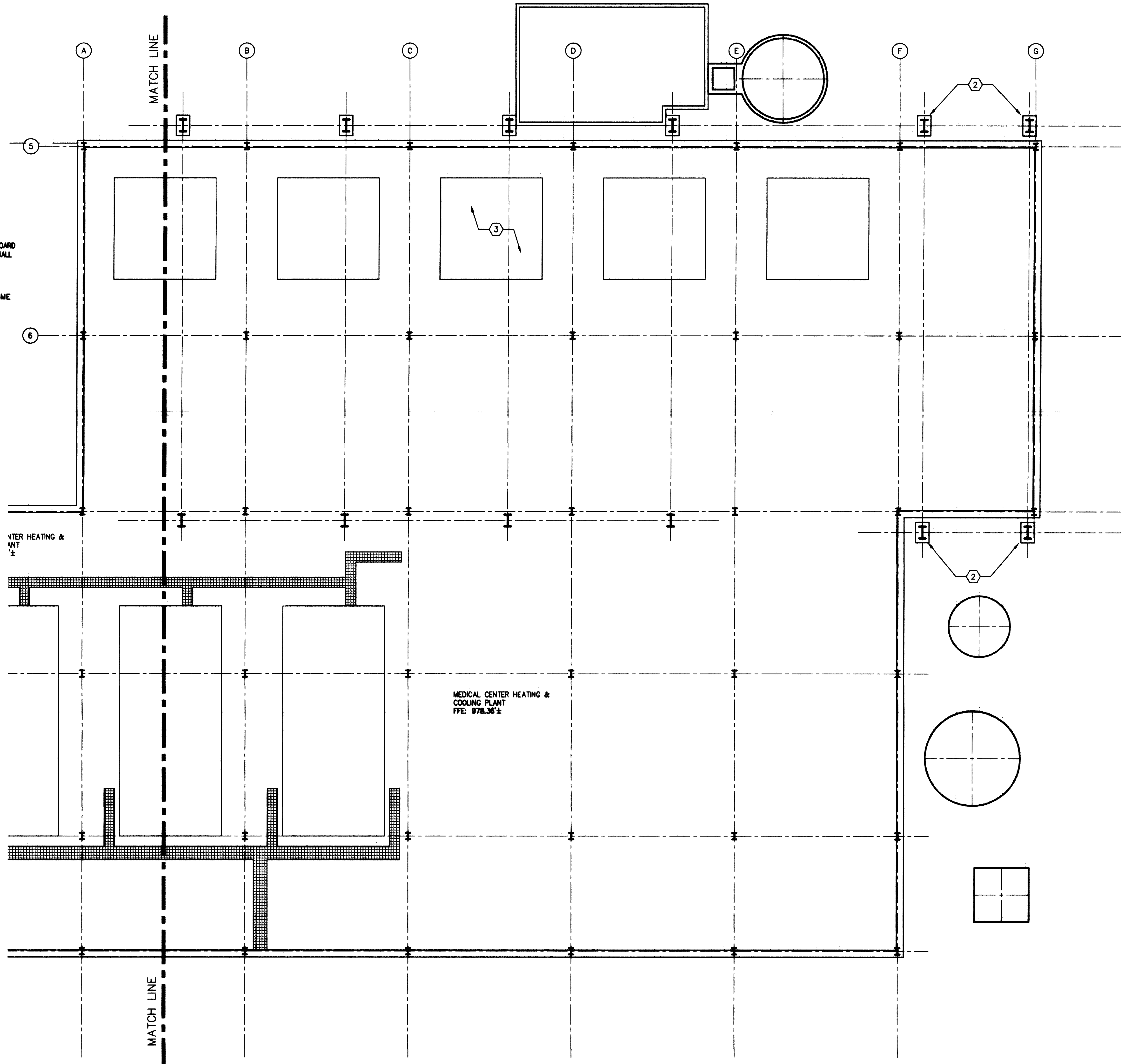
**HEAD / JAMB**  
SCALE: 1-1/2" = 1'-0" (4.3)



**DOOR ELEVATION**  
1/4" = 1'-0"



**FRAME ELEVATION**  
1/4" = 1'-0"



**FIRST FLOOR PLAN**  
1/8" = 1'-0"

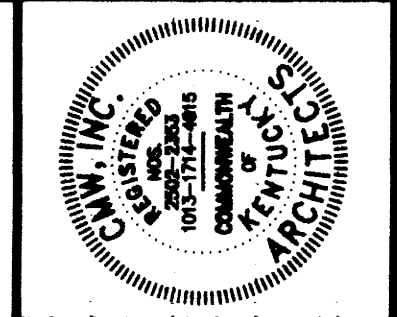
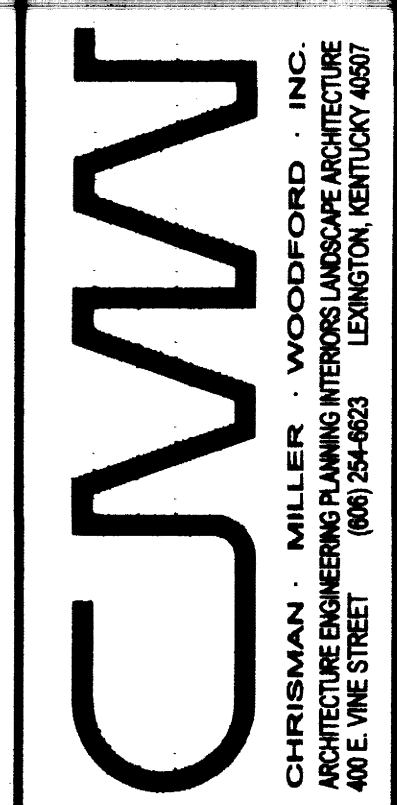
DOOR SCHEDULE GROUND FLOOR		DOOR OPENING SIZE		FRAME		WALL		DOOR		HARDWARE		CLOSURE		REMARKS		DOOR NO.											
NO.	LOCATION	INSIDE	NO.	WIDTH	HEIGHT	THICK	MATL.	GA.	ELEV.	JAMB D.	HEAD	JAMB	GLAZING	MATERIAL	MATL.	GA.	ELEV.	GLAZING	LABEL	20 MIN	1	2	THR	REMARKS			
101	KEYSIDE	STAIR TOWER	1	3'-0"	7'-0"	1-3/4"	HM	16	1	5-7/8"	C/4.3	C/4.3	---	CONC.	HM	---	A	WIRE GL.						T-1			101
102	MECHANICAL ROOM	AXIS LADDER	1	3'-0"	7'-0"	1-3/4"	HM	16	1	5-7/8"	B/4.3	A/4.3	---	GYP. BD.	HM	---	B	---						T-1			102

**GENERAL NOTES**

1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK, EDGE OF CONCRETE OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.

**SHEET NOTES**

- ① MASONRY INFILL: N.I.C. INFILL WALL SHALL BE DONE BY CHILLER CONTRACTOR. REFER TO ELEVATION A/4.5.
- ② STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- ③ CONCRETE HOUSEKEEPING PAD, N.I.C. PAD SHALL BE DONE BY CHILLER CONTRACTOR.

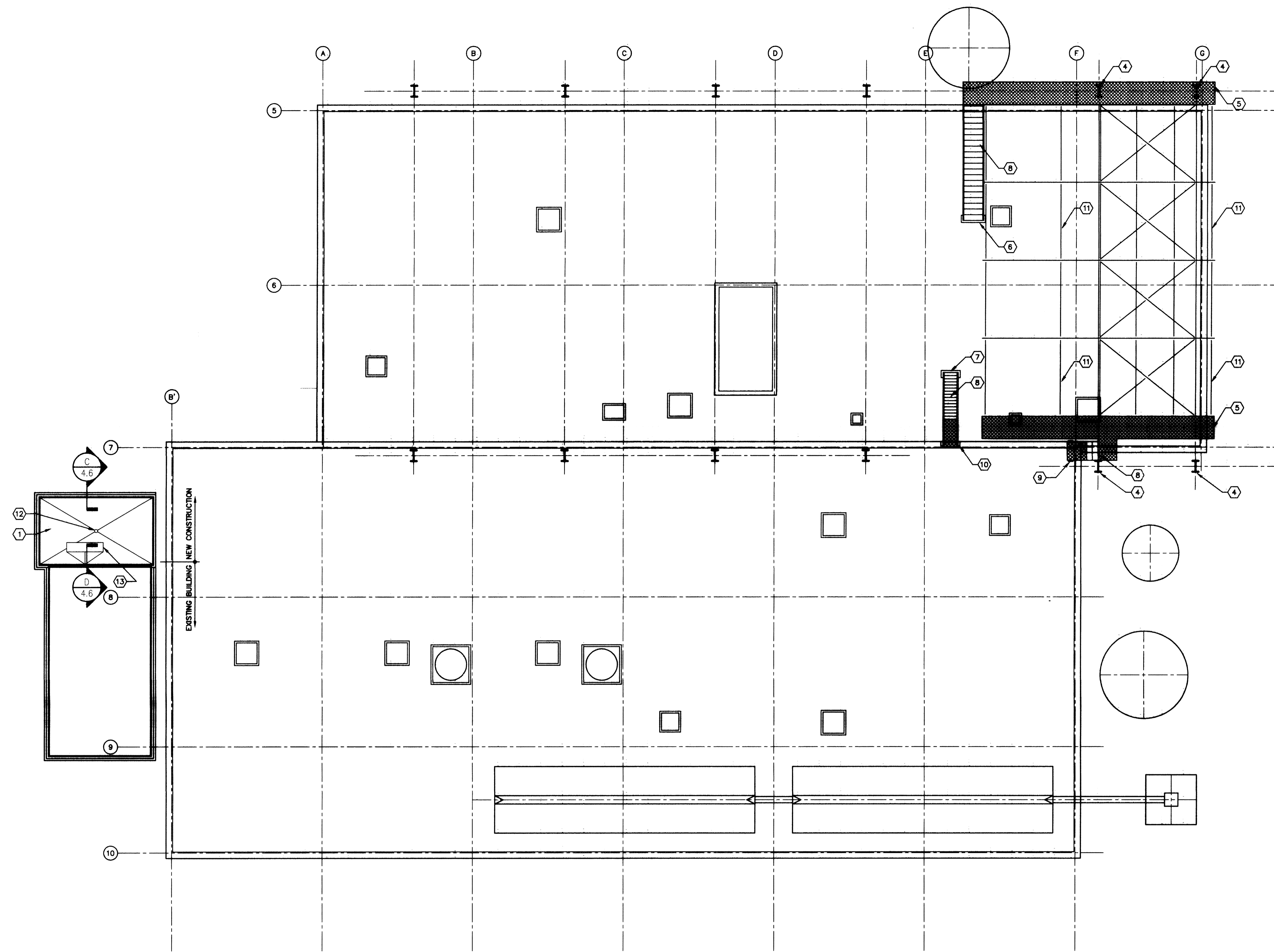


FAILURE TO ADHERE TO THESE CONDITIONS OF CONTRACT SHALL BE AT THE USER'S RISK AND ALL RESPONSIBILITY AND LIABILITY SHALL REMAIN WITH THE USER. THE ARCHITECT ASSUMES NO LIABILITY FOR CONSTRUCTION DEFECTS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT OF RECORD DRAWINGS.

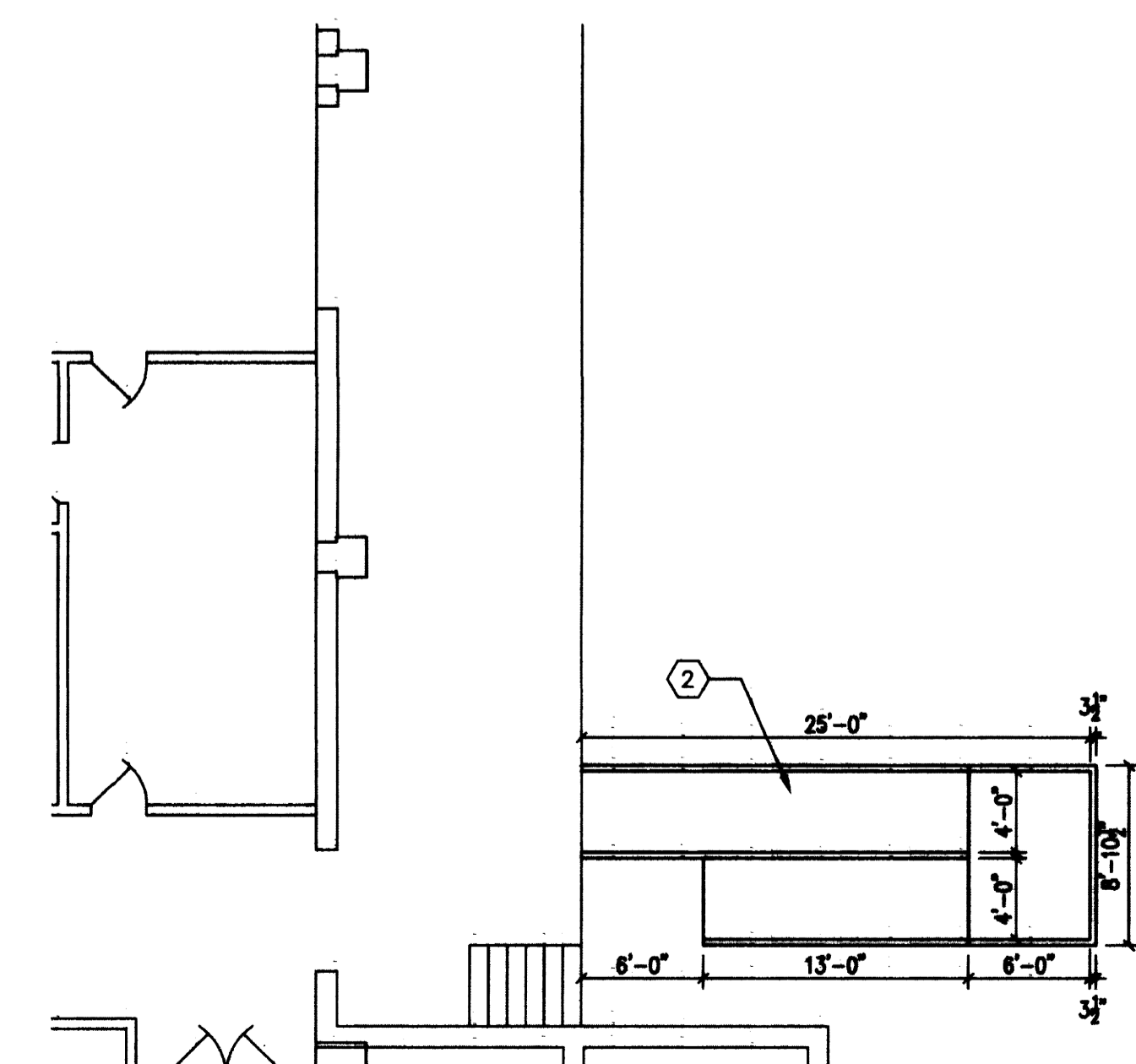
**FIRST FLOOR PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: M.W.  
CHECKED BY: B.D.  
REVISED:  
DATE 1:  
DATE 2:  
SHEET NUMBER: **43**  
PROJECT NUMBER: 99024.02  
PROJECT NAME: 99024.02

RECORD DRAWINGS DATE 11/20/2003  
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**ROOF PLAN**  
1/8" = 1'-0"



**LOADING DOCK 2 PLAN**  
1/8" = 1'-0"

**GENERAL NOTES**

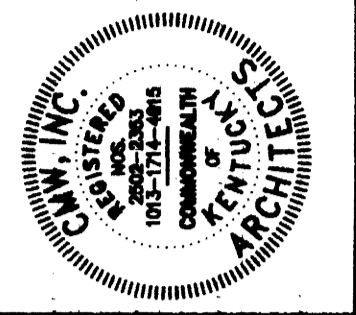
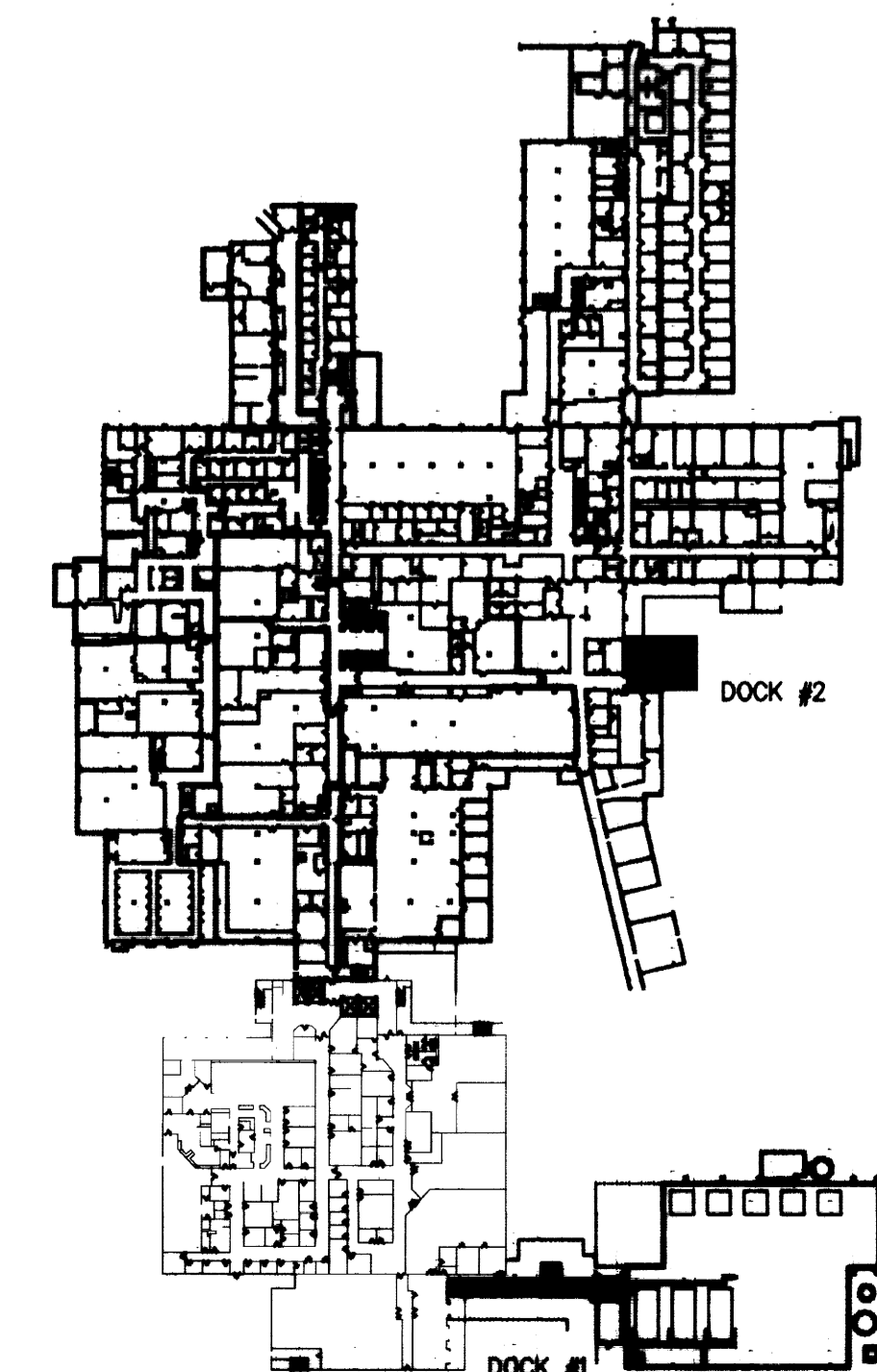
1. DIMENSIONS ARE TO EDGE OF METAL STUD, EDGE OF BRICK OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
2. ALL NEW CONCRETE PADS AT THE ROOF SHALL BE INSTALLED WATER TIGHT INTO THE EXISTING ROOF. PROVIDE CANTS AND EXTEND NEW ROOFING SPLICE UNDER CONTINUOUS FLASHING AT ALL SIDES.

**SHEET NOTES**

1. MODIFIED BITUMINOUS MEMBRANE ROOFING
2. TEMPORARY WOOD RAMP: 4'-0" WIDE WITH WOOD SAFETY RAIL. SLOPE SHALL NOT EXCEED 1:8. FIELD VERIFY LENGTH. LOCATE RAMP WITHIN STRIPING FOR SOUTHMOST DOCK BAY.
3. CURB AROUND EXHAUST VENT
4. STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
5. SERRATED GALVANIZED STEEL BAR GRATING
6. CONCRETE PAD 3'-0"L X 1'-2"W X 10 1/2"H
7. CONCRETE PAD 3'-10"L X 1'-2"W X 10 1/2"H
8. STEEL STAIR: TREAD AND LANDINGS SHALL BE OPEN GRATING TYPE. STEEL SHALL BE SHOP PRIMED AND FIELD PAINTED. REFER TO STRUCTURAL DRAWINGS.
9. CONCRETE PAD 3'-4"L X 8"W X 5"H
10. CONCRETE PAD 3'-0"L X 8"W X 7"H
11. STEEL BEAMS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
12. 6" ROOF DRAIN
13. EXHAUST FAN CURB

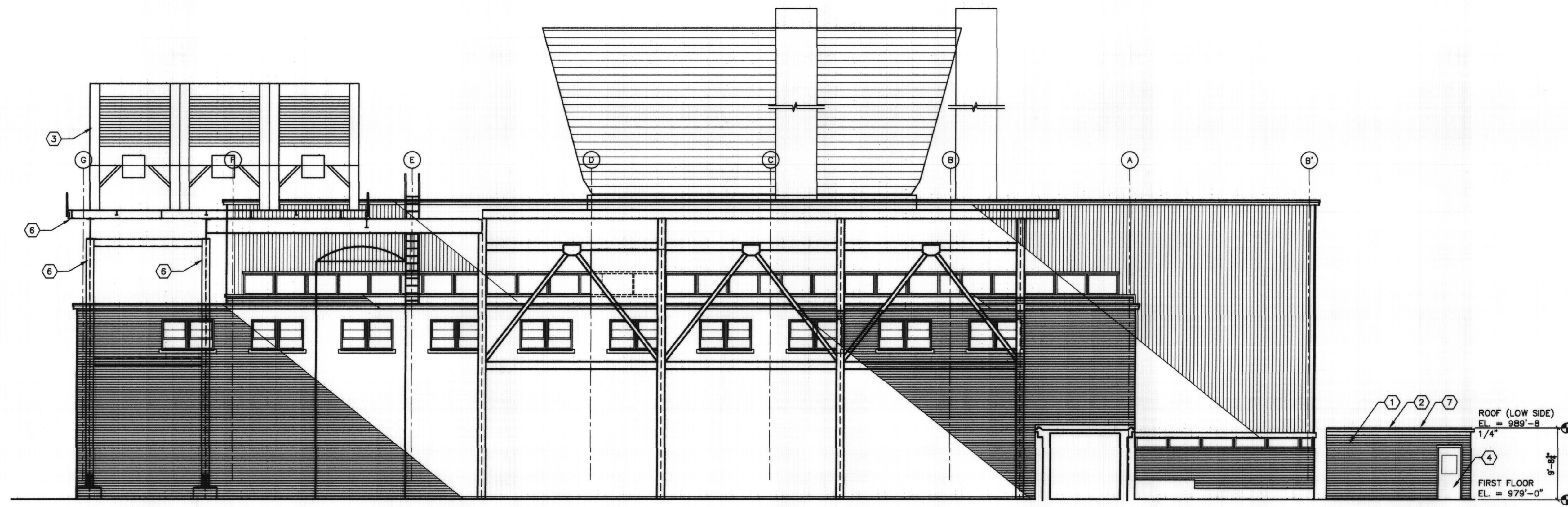
RECORD DRAWINGS DATE 11/20/2003  
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 CMW, INC.

**KEY PLAN**



**ROOF PLAN AND LOADING DOCK 2 PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: M.W.  
 CHECKED BY: B.D.  
 REVISED:  
 DATE 1.  
 SHEET NUMBER  
**4.4**  
 PROJECT NUMBER  
 99024.02

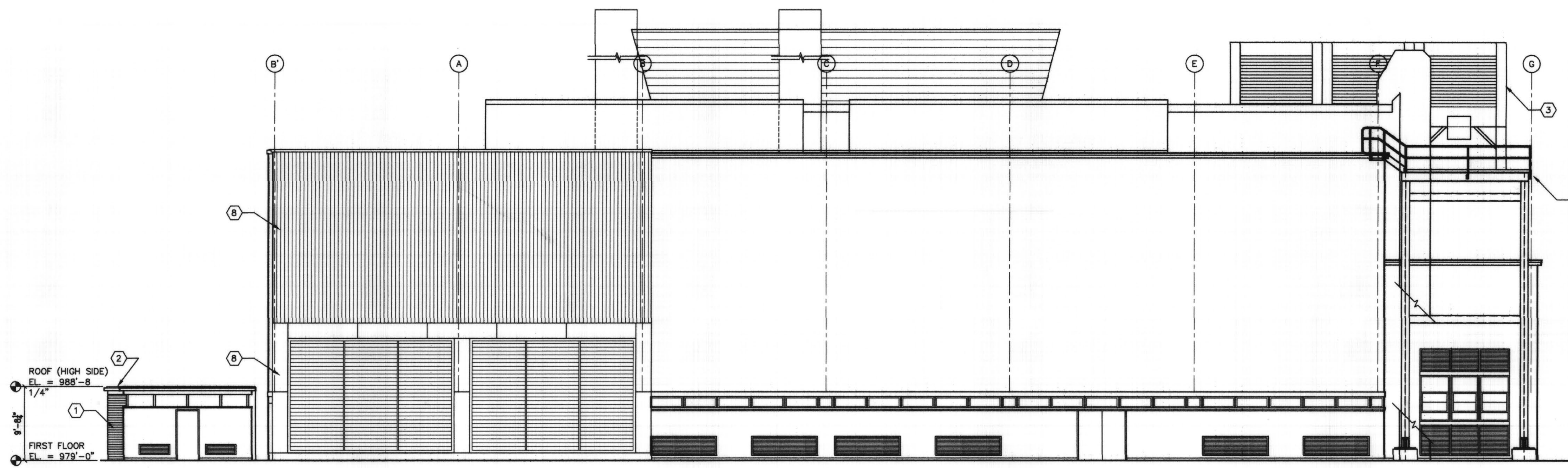


NORTH ELEVATION

1/8" = 1'-0"

A  
4.5

EXISTING BUILDING NEW CONSTRUCTION



SOUTH ELEVATION

1/8" = 1'-0"

B  
4.5

GENERAL NOTES

1. ALL EXTERIOR EXPOSED CONCRETE TO HAVE RUBBED FINISH AND SEALANT.

SHEET NOTES

- ① CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE WITH BRICK VENEER. BRICK SHALL MATCH EXISTING BRICK AT GAS HOUSE.
- ② CONCRETE ROOF STRUCTURE: MATCH EXISTING ROOF PROFILE. REFER TO DETAIL C/4.6
- ③ NEW COOLER TOWERS
- ④ PERSONEL DOOR: HOLLOW METAL DOOR, HALF GLASS TYPE, 3'X7'. REFER TO ENLARGED PLAN D/4.7
- ⑤ BRICK AND BLOCK INFILL, N.I.C. INFILL WALL SHALL BE DONE BY CHILLER CONTRACTOR.
- ⑥ STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- ⑦ MODIFIED BITUMEN ROOFING.
- ⑧ COOLING PLANT EXPANSION N.I.C.

**CMW**  
CHRISTIAN MALLER WOODFORD, INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
LEXINGTON, KENTUCKY 40507  
(606) 254-8623  
409 E. FINE STREET

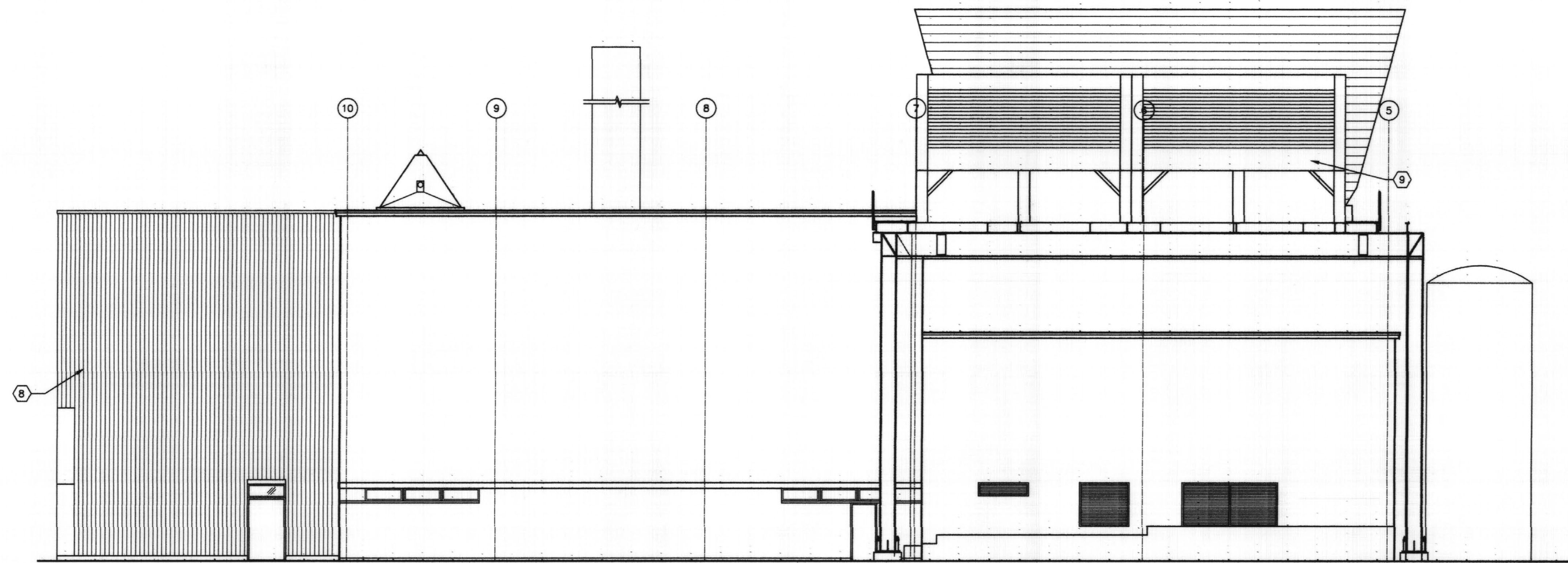


PLEASE TO MAKE BY DESIGN DOCUMENTS OR TO OBTAIN GUIDANCE. ALL INFORMATION AND LIABILITY ARE THE RESPONSIBILITY OF THE ARCHITECT. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACTIONS OF ANY OTHER PROFESSIONAL ENGINEERS OR CONTRACTORS WHICH ARE ALLIATED.

**ELEVATIONS**  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER 2000  
DRAWN BY: MW  
CHECKED BY: BD  
REVISED:  
DATE: 1.  
SHEET NUMBER  
**4.5**  
PROJECT NUMBER  
99024.02  
Cab # Slot Document #  
174 C-1

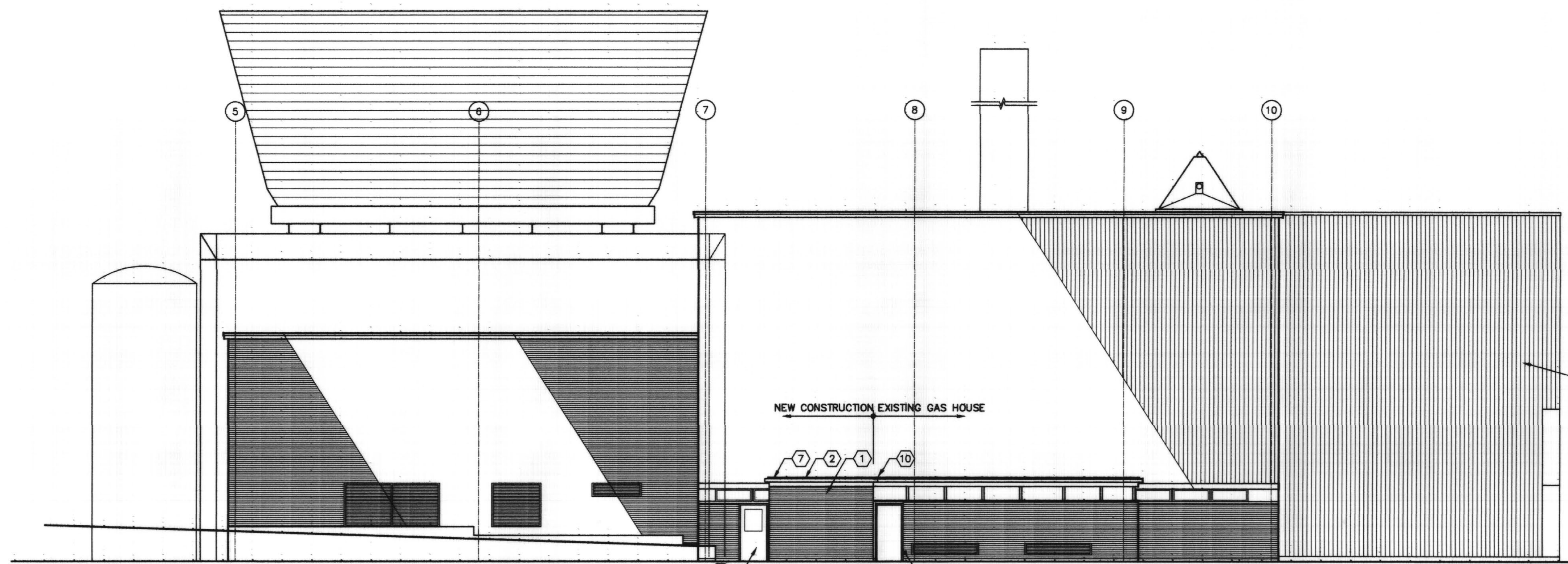
RECORD DRAWINGS DATE 11/20/2003  
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EAST ELEVATION

1/8" = 1'-0"

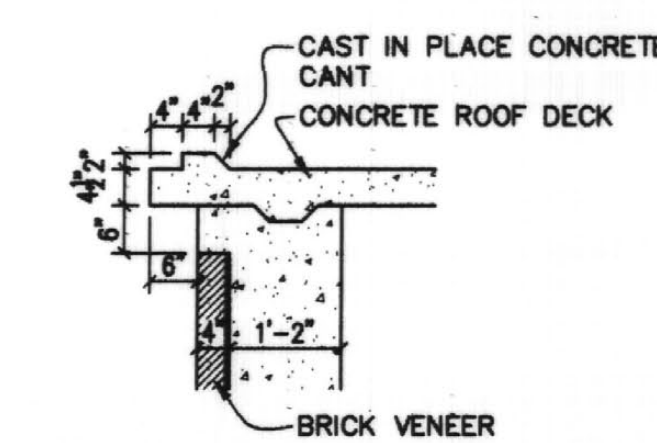
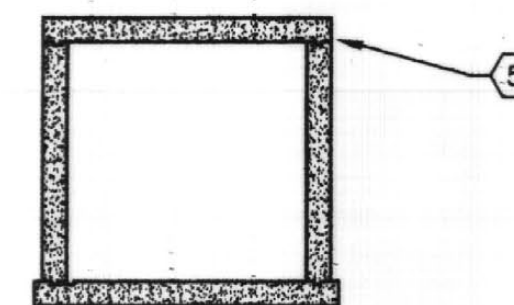
4.6



WEST ELEVATION

1/8" = 1'-0"

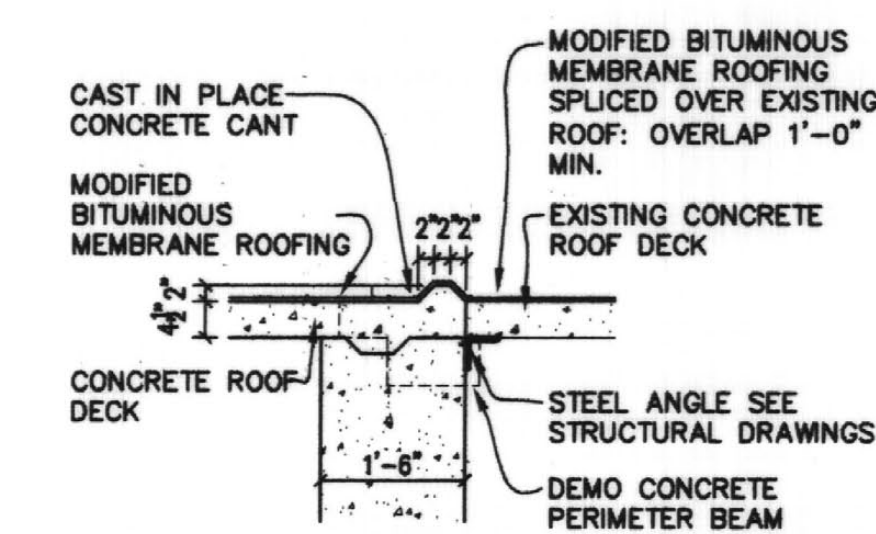
4.6



DETAIL

1/2" = 1'-0"

4.6



DETAIL

1/2" = 1'-0"

4.6

GENERAL NOTES

1. ALL EXTERIOR EXPOSED CONCRETE TO HAVE RUBBED FINISH AND SEALANT.

SHEET NOTES

- 1 CONCRETE STAIR TOWER/SHAFT: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BRICK VENEER. BRICK SHALL MATCH EXISTING BRICK AT GAS HOUSE.
- 2 CONCRETE ROOF STRUCTURE: MATCH EXISTING ROOF PROFILE. REFER TO DETAIL C/4.6
- 3 EXISTING DOOR BEYOND.
- 4 RELOCATED EXISTING DOOR AND FRAME.
- 5 CONCRETE TUNNEL: CAST-IN-PLACE CONCRETE STRUCTURE, WITH BENTONITE WATER PROOFING.
- 6 STEEL COLUMNS: SUPPORT FOR NEW COOLING TOWER. REFER TO STRUCTURAL DRAWINGS.
- 7 MODIFIED BITUMEN ROOFING.
- 8 COOLING PLANT EXPANSION N.I.C.
- 9 NEW COOLING TOWERS
- 10 SEE ENLARGED DETAIL D/4.6



FAILURE TO MAKE BY THE DESIGN PROFESSIONAL, IN ANY CASE, SHALL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ETHICS AND STANDARDS OF THE ARCHITECTURE BOARD OF THE STATE OF KENTUCKY. THE DESIGN PROFESSIONAL SHALL BE RESPONSIBLE TO THE CLIENT AND TO THE PUBLIC. THE DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACTIONS OF OTHER CONTRACTORS WHICH ARE ALIEN TO THE DESIGN PROFESSIONAL'S OBLIGATIONS.

ELEVATIONS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: BJ  
CHECKED BY: BD  
REVISED:  
DATE 1. #  
2. #  
3. #  
4. #

RECORD DRAWINGS DATE 11/20/2003  
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Architect will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
CMW, INC.

SHEET NUMBER  
**4.6**  
PROJECT NUMBER  
99024.02  
C-1





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MECH. AND ELEC. LEGEND/KEY PLAN  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHEET PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: CCK  
 CHECKED BY: CCK  
 REVISED: DATE  
 SHEET NUMBER  
 8.0.0  
 PROJECT NUMBER  
 90024.02  
 Cab # 5104 Document # 174 C-1 255.694

**SITE UTILITIES**

SITE UTILITIES LEGEND	
MECHANICAL	
ES	EXISTING SANITARY SEWER
S	NEW SANITARY SEWER
SS	NEW STORM SEWER
FP	FIRE PROTECTION LINE
DW	EXISTING COLD WATER SERVICE
W	NEW COLD WATER SERVICE
EG	EXISTING GAS
G	NEW GAS
CV	CURB VALVE WITH VALVE BOX
V	VALVE WITH VALVE BOX
UM	UTILITY MARKER
▲	THRUST BLOCK
○	HYDRAULIC CALCULATION REFERENCE POINT
C.I.	CAST IRON
ELEV.	ELEVATION
EXIST.	EXISTING
F.H.	FIRE HYDRANT
G.C.O.	GRADE CLEANOUT
I.E.	INVERT ELEVATION
P.I.V.	POST INDICATOR VALVE
T.E.	TOP ELEVATION
ELECTRICAL	
OH	EXISTING OVERHEAD UTILITIES
OC	OVERHEAD ELECTRIC
EU	ELECTRIC UNDERGROUND
ELUE	EXISTING ELECTRIC UNDERGROUND
BCU	BRANCH CIRCUIT UNDERGROUND
UGP	UNDERGROUND PRIMARY SERVICE
EP	EXISTING UNDERGROUND PRIMARY SERVICE
ET	EXISTING TELEPHONE UNDERGROUND
T	UNDERGROUND TELEPHONE CONDUIT
ESL	EXISTING STREET LIGHTING
LS	LIGHTING STANDARD
PL	EXISTING POST LIGHT
PL	POST LIGHT

**MECHANICAL**

PLUMBING LEGEND	
SW	SANITARY OR WASTE PIPING
VP	VENT PIPING
RL	ROOF LEADER PIPING
SS	STORM SEWER PIPING
SD	STORM DRAIN PIPING
LD	UNDERFLOOR DRAINAGE PIPING
DT	DRAIN TILE
CWP	COLD WATER PIPING
HWP	HOT WATER PIPING
HWR	HOT WATER RECIRCULATING PIPING
G	GAS PIPING
A	AIR PIPING
ELB (UP)	ELBOW (UP)
ELB (DOWN)	ELBOW (DOWN)
ELB (SIDE)	ELBOW (SIDE)
TEE (UP)	TEE (UP)
TEE (DOWN)	TEE (DOWN)
TEE (SIDE)	TEE (SIDE)
UNION	UNION
REDUCER OR INCREASER	REDUCER OR INCREASER

**MEDICAL GAS LEGEND**

O <sub>2</sub>	OXYGEN PIPING
N <sub>2</sub> O	NITROUS OXIDE PIPING
N <sub>2</sub>	NITROGEN PIPING
MA	MEDICAL AIR PIPING
CO <sub>2</sub>	CARBON DIOXIDE SYSTEM

**MECHANICAL**

FIRE PROTECTION LEGEND	
FP	FIRE PROTECTION MAN
SBP	SPRINKLER BRANCH PIPING
ELB (UP)	ELBOW (UP)
ELB (DOWN)	ELBOW (DOWN)
ELB (SIDE)	ELBOW (SIDE)
TEE (UP)	TEE (UP)
TEE (DOWN)	TEE (DOWN)
TEE (SIDE)	TEE (SIDE)
SV	SUPERVISED VALVE
ITP	INSPECTOR'S TEST PIPING
FS	FLOW SWITCH
SH	SPRINKLER HEAD (PENDENT)
SHU	SPRINKLER HEAD (UPRIGHT)
SHS	SPRINKLER HEAD (SIDEWALL)
SHSE	SPRINKLER HEAD (SIDEWALL - EXTENDED COVERAGE)
HC	HYDRAULIC CALCULATION REFERENCE POINT

**H.V.A.C. PIPING LEGEND**

HP	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
MP	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE CONDENSATE RETURN
LP	LOW PRESSURE STEAM
LPR	LOW PRESSURE CONDENSATE RETURN
SV	STEAM VENT
PD	CONDENSATE PUMP DISCHARGE
SVV	SAFETY RELIEF VALVE VENT
V	VENT
CDS	CONDENSER WATER SUPPLY
CDR	CONDENSER WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CD	CONDENSATE DRAINAGE
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
TPS	TEMPERATURE CONTROL PRESSURE SENSOR
TPS	TEMPERATURE CONTROL TEMPERATURE SENSOR
GV (SCREWED)	GATE VALVE (SCREWED) --- PLAN, END VIEW
GV (FLANGED)	GATE VALVE (FLANGED) --- PLAN, END VIEW
GV (SCREWED)	GLOBE VALVE (SCREWED) --- PLAN, END VIEW
GV (FLANGED)	GLOBE VALVE (FLANGED) --- PLAN, END VIEW
CV	CHECK VALVE, SILENT CHECK VALVE
3-WAY	3-WAY CONTROL VALVE, 2-WAY CONTROL VALVE
BS	COMB. BALANCING SHUT-OFF VALVE --- PLAN, END VIEW
BS	BASKET STRAINER
3/4"	3/4" DRAIN VALVE WITH HOSE CONNECTION
SRV	SAFETY RELIEF VALVE
Y	Y-TYPE STRAINER WITH DRAIN VALVE
FC	FLEXIBLE CONNECTOR
PG	PRESSURE GAUGE
TEMP	TEMPERATURE GAUGE
UNION	UNION
MAV (PLAN, ELEVATION)	MANUAL AIR VENT --- PLAN, ELEVATION
AAV (PLAN, ELEVATION)	AUTOMATIC AIR VENT --- PLAN, ELEVATION
CR	CONCENTRIC REDUCER --- PLAN, ELEVATION
ECR	ECCENTRIC REDUCER --- PLAN, ELEVATION
BV	BUTTERFLY VALVE
BV	BALL VALVE
FC	FLANGED CONNECTION
NV	NEEDLE VALVE IN GAUGE LINE
FI	FLOW INDICATOR

**MECHANICAL ABBREVIATIONS**

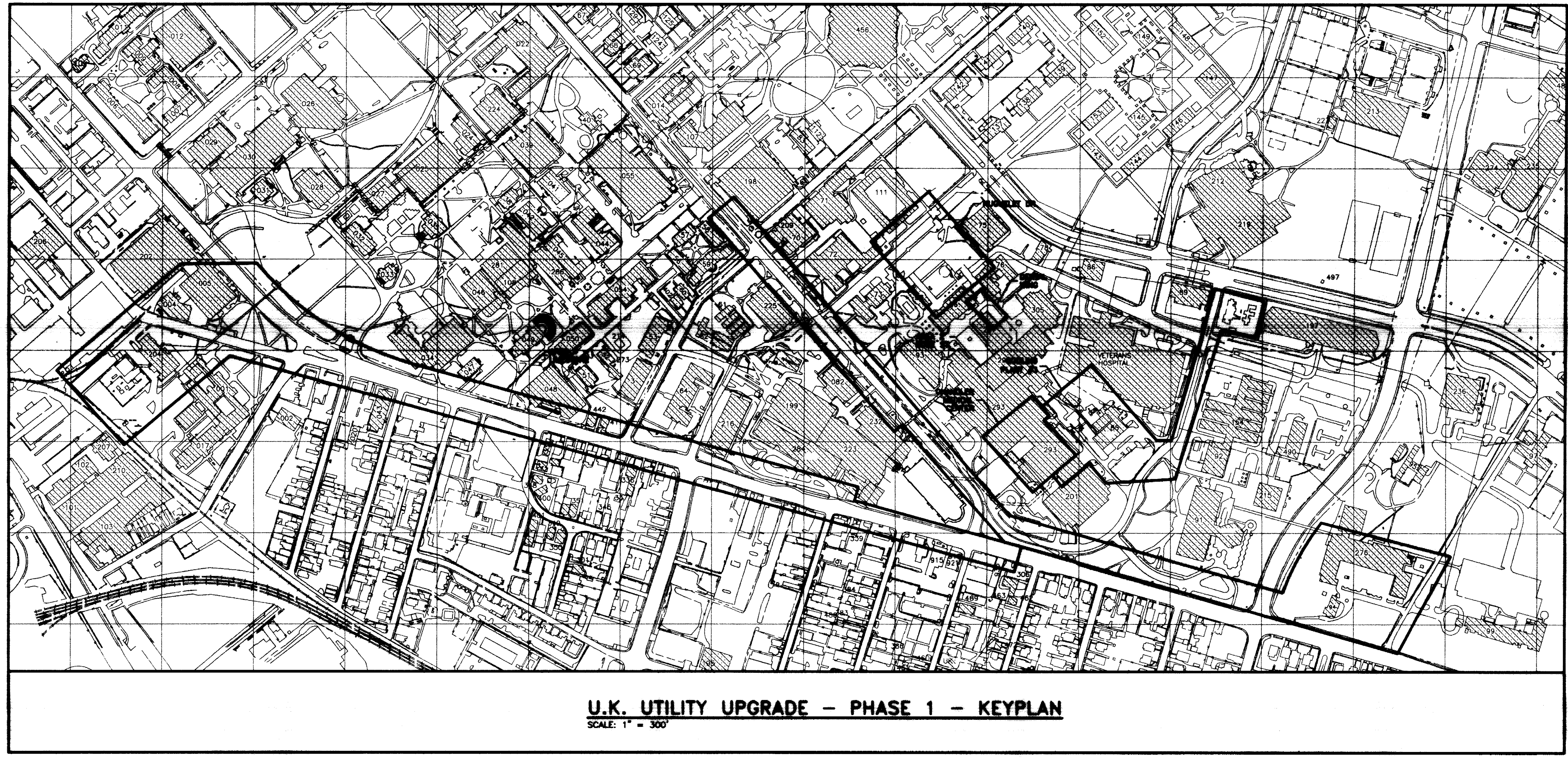
PLUMBING	
C.I.	CAST IRON
C.O.	CLEANOUT
CW	COLD WATER
FD	FLOOR DRAIN
HW	HOT WATER
RD	ROOF DRAIN
VTR	VENT-THROUGH-ROOF
VCP	VITRIFIED CLAY PIPE
H.V.A.C.	
A.A.V.	AUTOMATIC AIR VENT
A.D.	ACCESS DOOR
A.F.	ABOVE FLOOR
E.M.D.	END OF MAIN DRIP
F.M.S.	FLOW MEASURING STATION
M.A.V.	MANUAL AIR VENT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
T.A.V.	THERMOSTATIC AIR VENT
T.C.P.	TEMPERATURE CONTROL PANEL
V.B.	VACUUM BREAKER
V.F.C.	VARIABLE FREQUENCY CONTROLLER

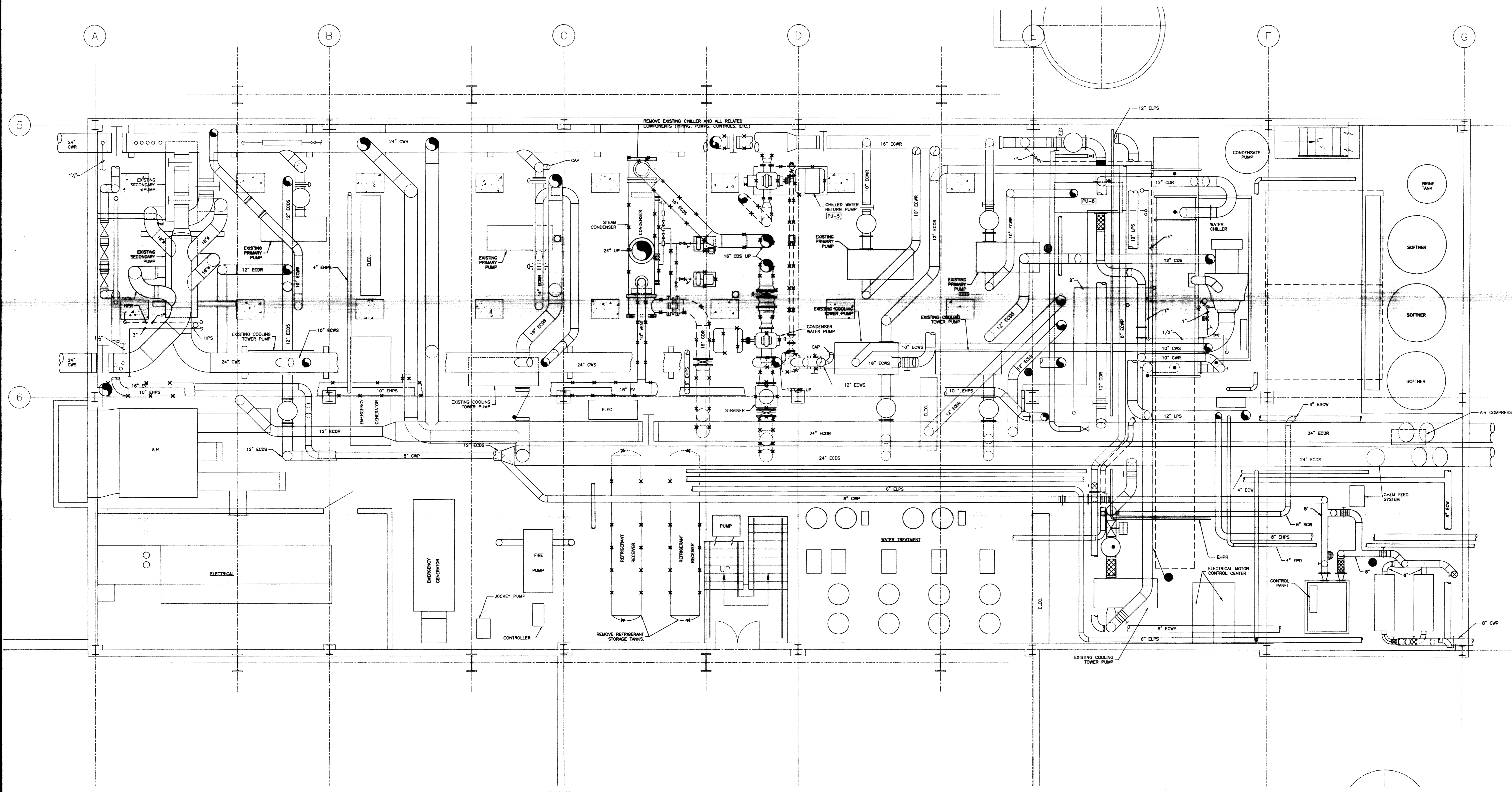
**ELECTRICAL CONDUITS, LIGHTING, ETC.**

CBF	CONDUIT BELOW FLOOR
CABF	CONDUIT ABOVE FLOOR
WB	WIREWAY OR DUCT BANK
DC	D.C. CIRCUIT IN CONDUIT (MINIMUM #10 WIRE)
CO	CEILING OUTLET FOR LIGHT FIXTURE
EP	ENTRANCE POINT OF CONDUIT THROUGH FLOOR
PC	PANELBOARD OR TERMINAL CABINET
JB	JUNCTION BOX
DISC	DISCONNECT SWITCH
SEE NOTE 1 THIS SHEET	
RECP (BOTTOM 16" A.F.F.)	RECEPTACLES (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)
GFI	GROUND FAULT INTERRUPTING OUTLET
WPO	WEATHERPROOF OUTLET
WO (240V., 1-PHASE)	WALL OUTLET (240V., 1-PHASE) (RATING AS NOTED)
WS (BOTTOM 44" A.F.F.)	WALL SWITCHES (BOTTOM 44" A.F.F.) (EXCEPT AS NOTED OTHERWISE)
SP	SINGLE POLE

**ELECTRICAL ELECTRICAL ABBREVIATIONS**

A.F.F.	ABOVE FINISHED FLOOR
C.	CONDUIT
F.A.	FIRE ALARM
G.F.I.	GROUND FAULT INTERRUPTER
I.G.	ISOLATED GROUND
J.B.	JUNCTION BOX
T.T.C.	TELEPHONE TERMINAL CABINET
R.	DEVICE OR OUTLET TO BE REMOVED
W.	WIRE
F.	FLUSH
P.	PEDESTAL
NOTE: ALL DASHED DEVICES, OUTLETS, ETC., ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.	
NOTE: THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THE CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED, THE ITEM SHALL BE FURNISHED AND INSTALLED.	
SPECIAL SYMBOLS THIS PROJECT	

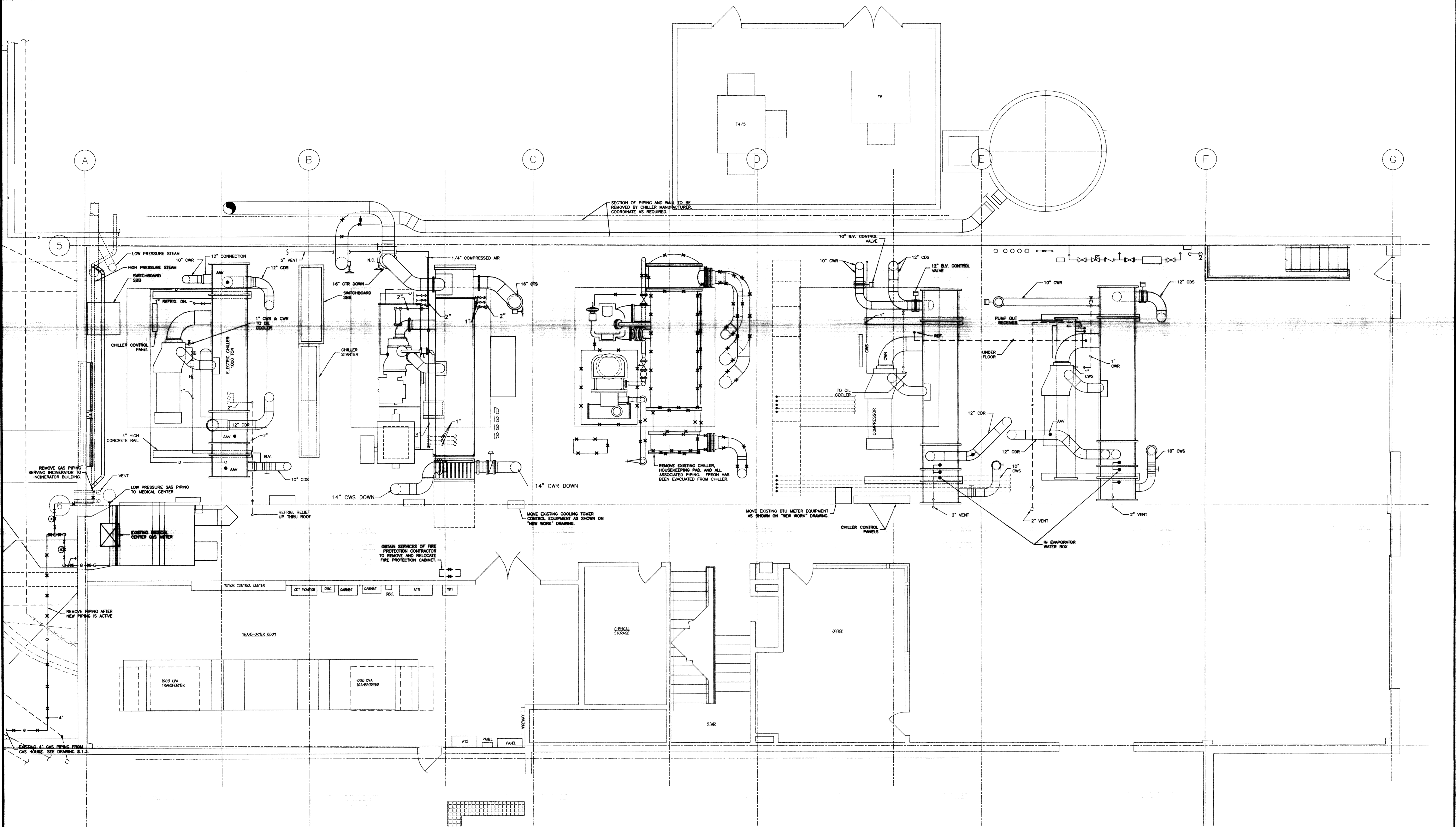




**H.V.A.C. DEMOLITION - BASEMENT PLAN**  
SHEET SCALE: 1/4" = 1'-0"

**NOTE:**  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIPS OF THE WORK. VARIOUS TRUNKS, FITTINGS, AND CONNECTIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE 11/10/03  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

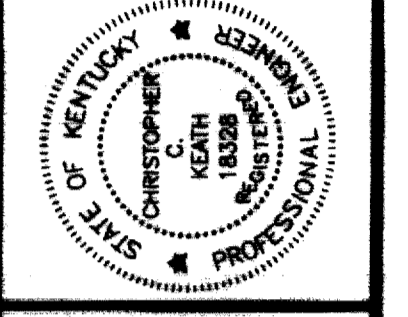


**H.V.A.C. DEMOLITION - FIRST FLOOR PLAN**

SHEET SCALE: 1/4" = 1'-0"

**NOTE:**  
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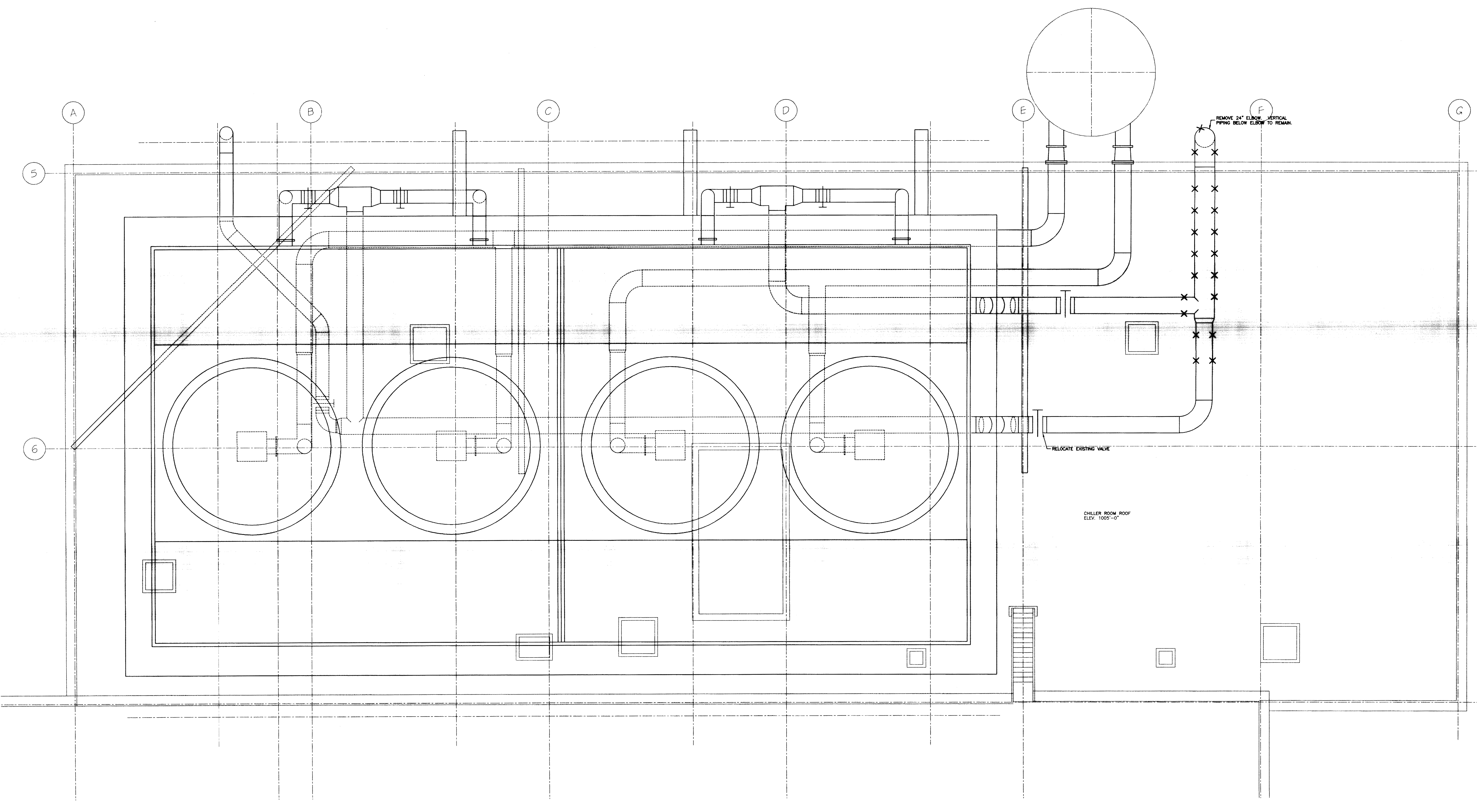
RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



DESIGNED BY: [Signature]  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 DATE: [Date]

**H.V.A.C. DEMOLITION - FIRST FLOOR PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT.	PROJECT TITLE
DATE:	DECEMBER, 2000
DRAWN BY:	OKK
CHECKED BY:	OKK
REVISED:	
DATE:	3/7/01 ADDITIONAL
	3/3/01 ADDITIONAL
	8/3/01 STARTER REV
	12/8/01 GAS PIPING
SHEET NUMBER:	8.1.1
PROJECT NUMBER:	98024.02
Doc #	
174	C-1



**H.V.A.C. DEMOLITION - ROOF PLAN**  
 SHEET SCALE: 1/4" = 1'-0"

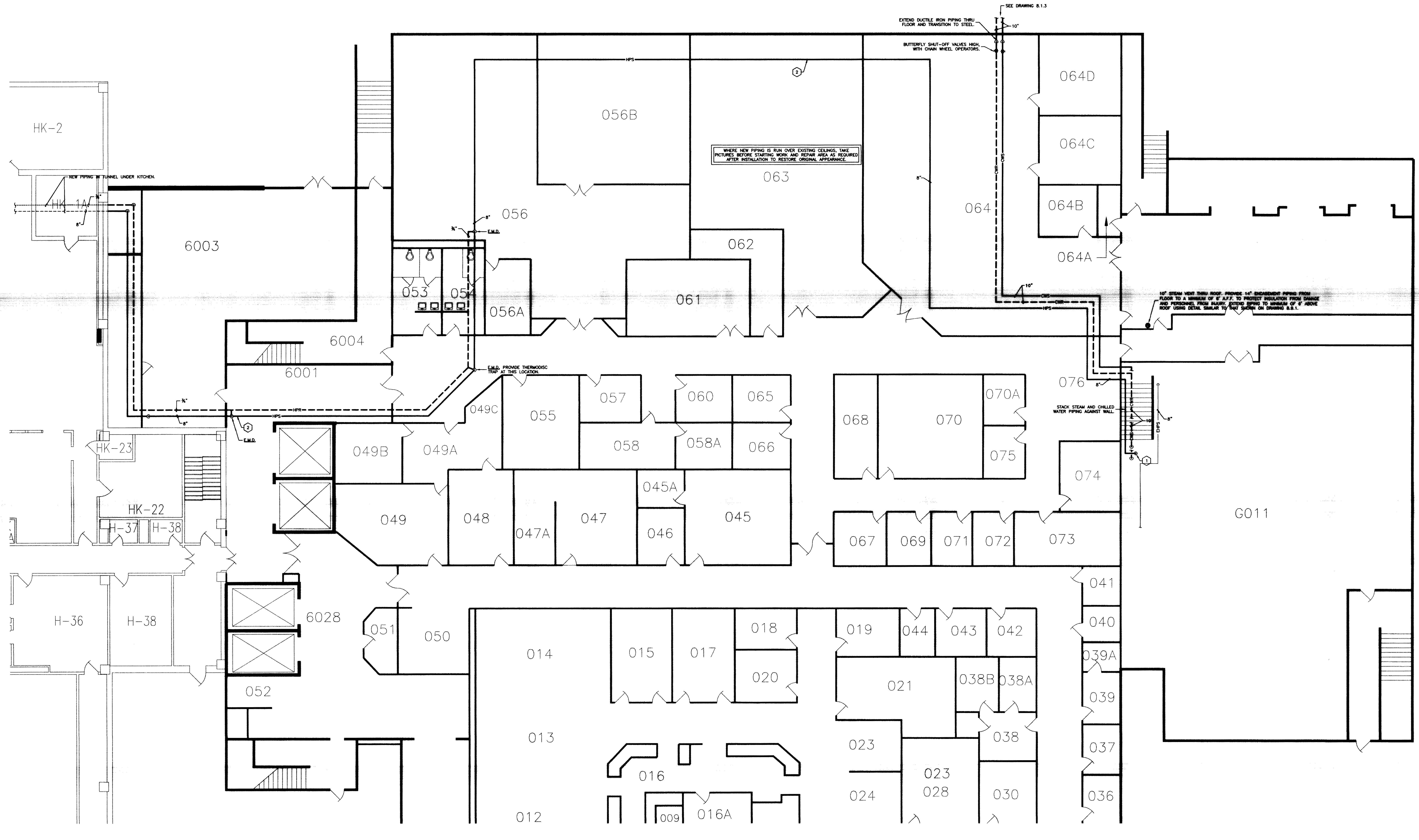
**NOTE:**  
 IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES, DETAILS, AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

FAILURE TO MAKE BY THE CONTRACTOR THE NECESSARY PROVISIONS FOR THE PROTECTION OF THE EXISTING UTILITIES AND STRUCTURES SHALL BE AT THE CONTRACTOR'S RISK AND WITHOUT LIABILITY TO THE ENGINEER.

H.V.A.C. DEMOLITION - ROOF PLAN  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: CCK  
 CHECKED BY: CCK  
 REVISED:  
 DATE: 2/3/02 FIELD REV.  
 SHEET NUMBER: 8.1.2  
 PROJECT NUMBER: 99024.02  
 174 C-1 25487



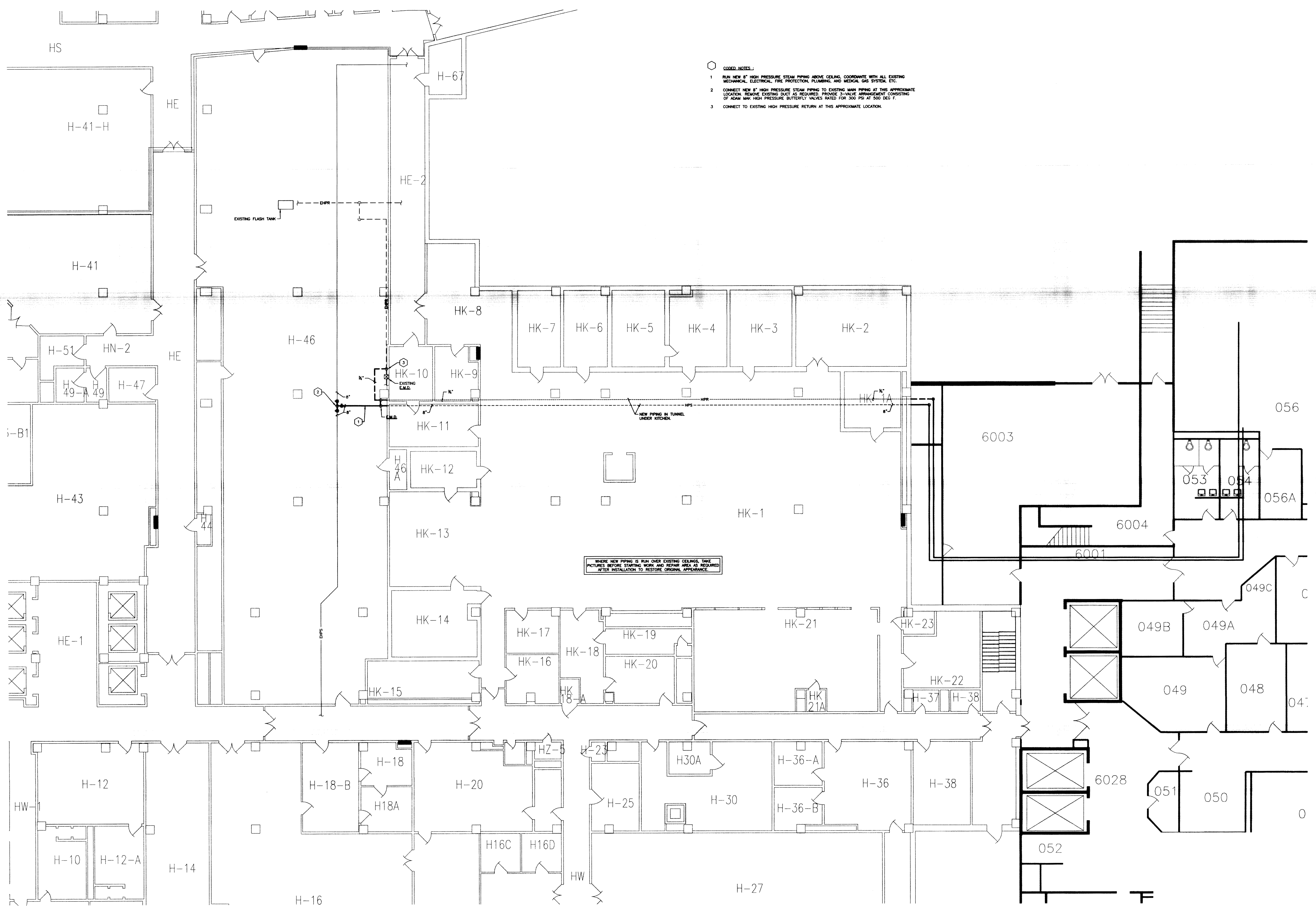
- CODED NOTES:
- 1 NEW 8" HIGH PRESSURE STEAM SUPPLY PIPING FROM BASEMENT.
  - 2 HOLD PIPING AS HIGH AS POSSIBLE, AND COORDINATE WITH ALL EXISTING MECHANICAL, ELECTRICAL, FIRE PROTECTION, PLUMBING, AND MEDICAL GAS SYSTEM ETC.

RECORD DRAWINGS DATE 11/10/03

**NEW STEAM PIPING PLAN - PARTIAL BASEMENT FLOOR**  
SHEET SCALE: 1/8" = 1'-0"

NOTICE: IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTERRELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONNECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS, AND SECTIONS ARE SHOWN FOR THE CONTRACTOR'S CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

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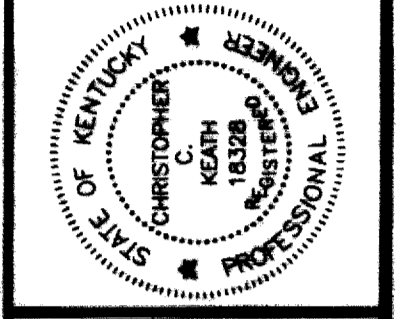
- CODED NOTES:**
- 1 RUN NEW 8" HIGH PRESSURE STEAM PIPING ABOVE CEILING, COORDINATE WITH ALL EXISTING MECHANICAL, ELECTRICAL, FIRE PROTECTION, PLUMBING, AND MEDICAL GAS SYSTEM, ETC.
  - 2 CONNECT NEW 8" HIGH PRESSURE STEAM PIPING TO EXISTING MAIN PIPING AT THIS APPROXIMATE LOCATION. REMOVE EXISTING DUCT AS REQUIRED. PROVIDE 3-VALVE ARRANGEMENT CONSISTING OF ADAM MARK HIGH PRESSURE BUTTERFLY VALVES RATED FOR 300 PSI AT 500 DEG F.
  - 3 CONNECT TO EXISTING HIGH PRESSURE RETURN AT THIS APPROXIMATE LOCATION.

WHERE NEW PIPING IS RUN OVER EXISTING CEILINGS, TAKE PICTURES BEFORE STARTING WORK AND REPAIR AREA AS REQUIRED AFTER INSTALLATION TO RESTORE ORIGINAL APPEARANCE.

**NOTE:**  
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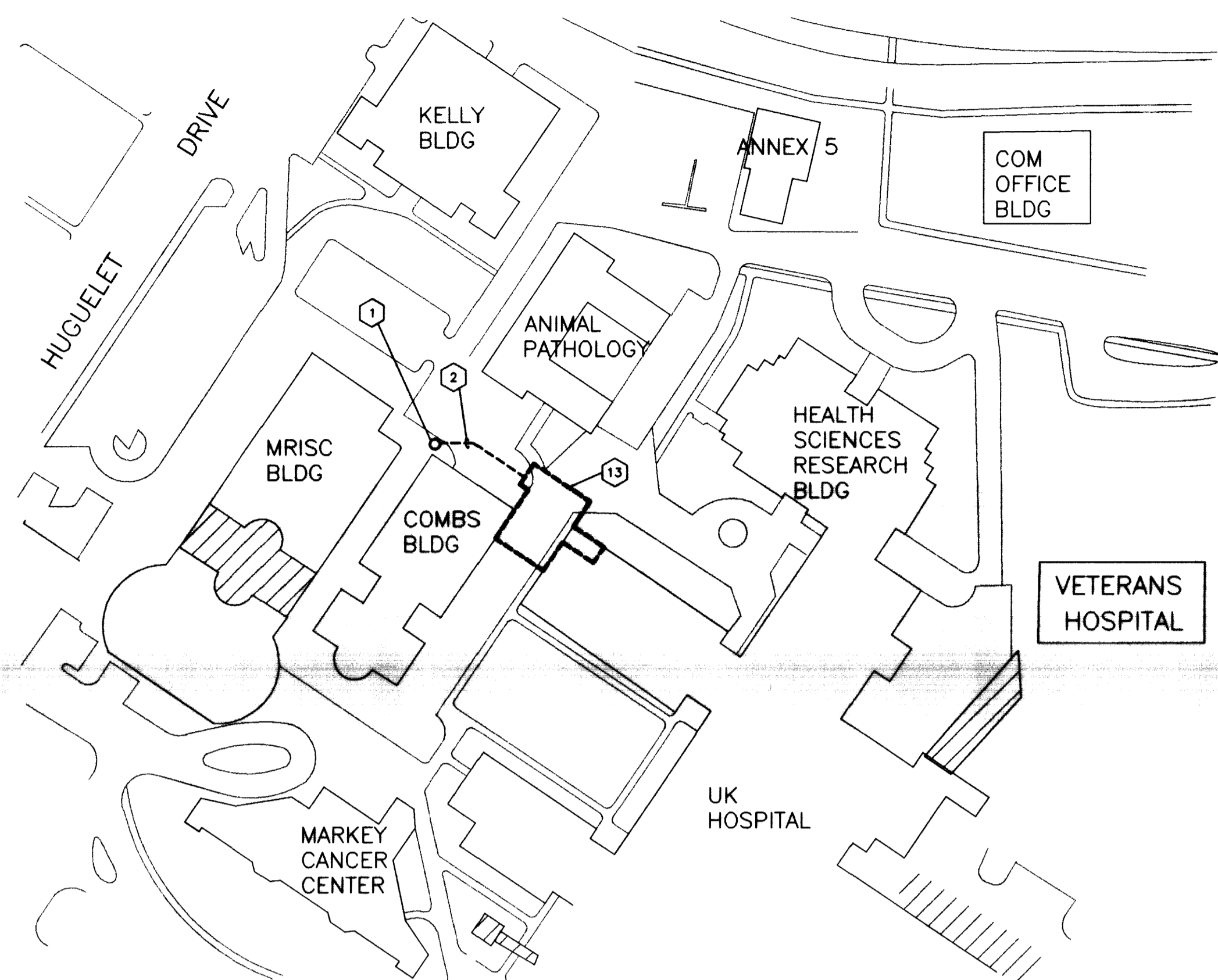
RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

**NEW STEAM PIPING PLAN - PARTIAL BASEMENT FLOOR**  
 SHEET SCALE: 1/8" = 1'-0"

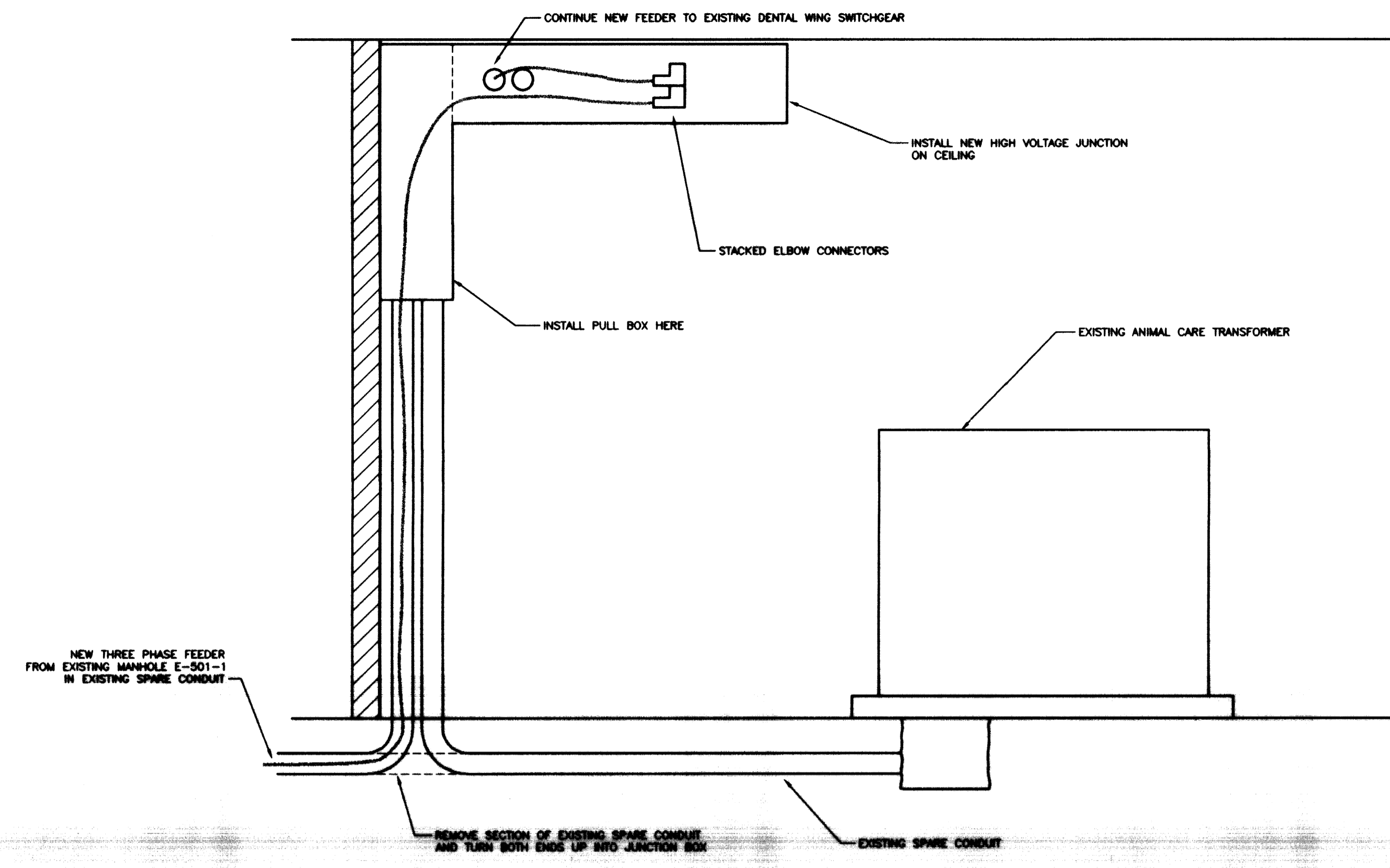


**NEW STEAM PIPING PLAN - PARTIAL BASEMENT FLOOR**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY:   
 CHECKED BY: cck  
 REVISED: 1  
 DATE: 1/10/01 STEAM PIPING  
 2/11/04/01 STEAM PIPING  
 SHEET NUMBER  
**8.6.1**  
 PROJECT NUMBER  
 99024.02  
 Cab # 174 C-1 25494



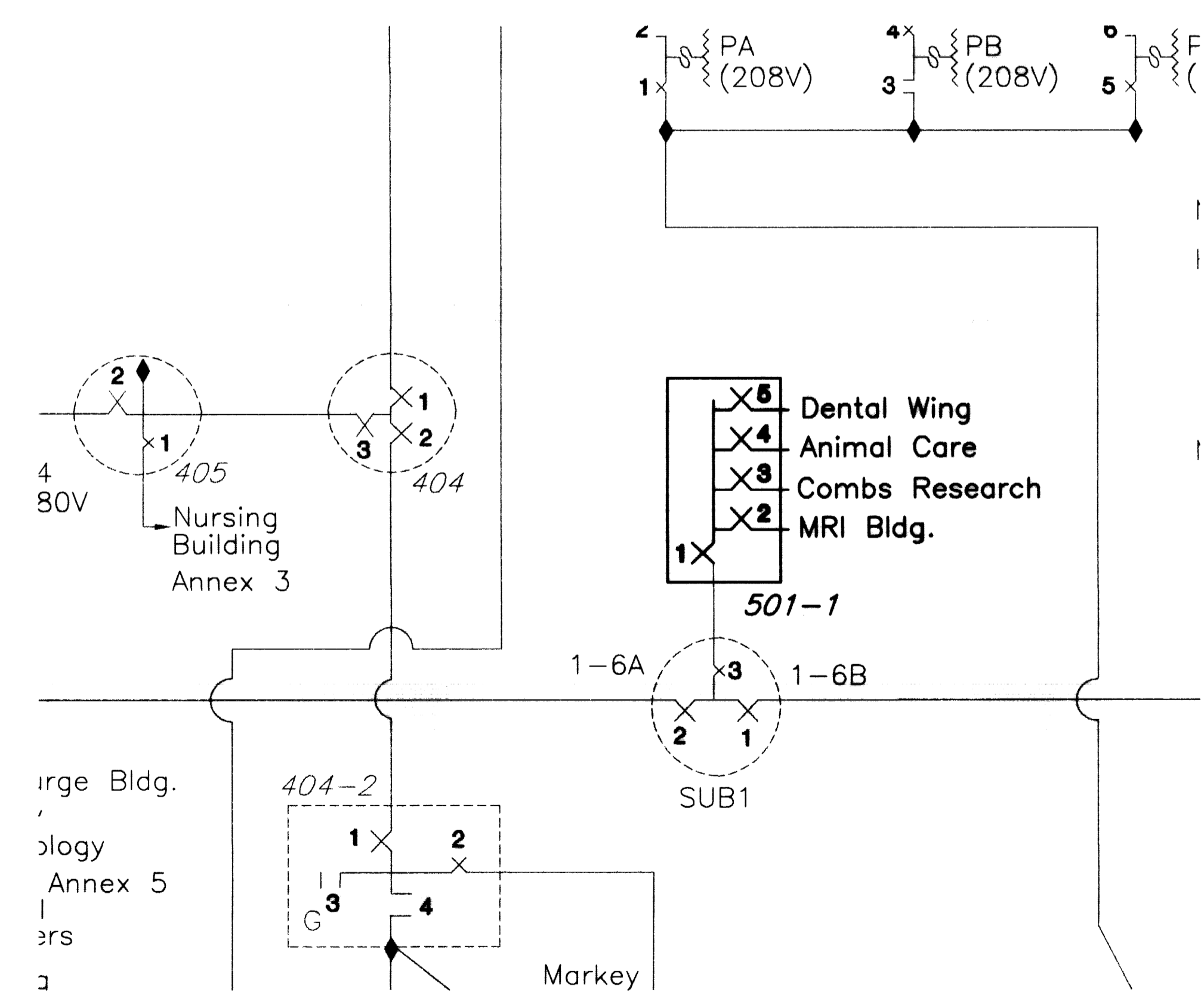
**SITE PLAN**  
NO SCALE



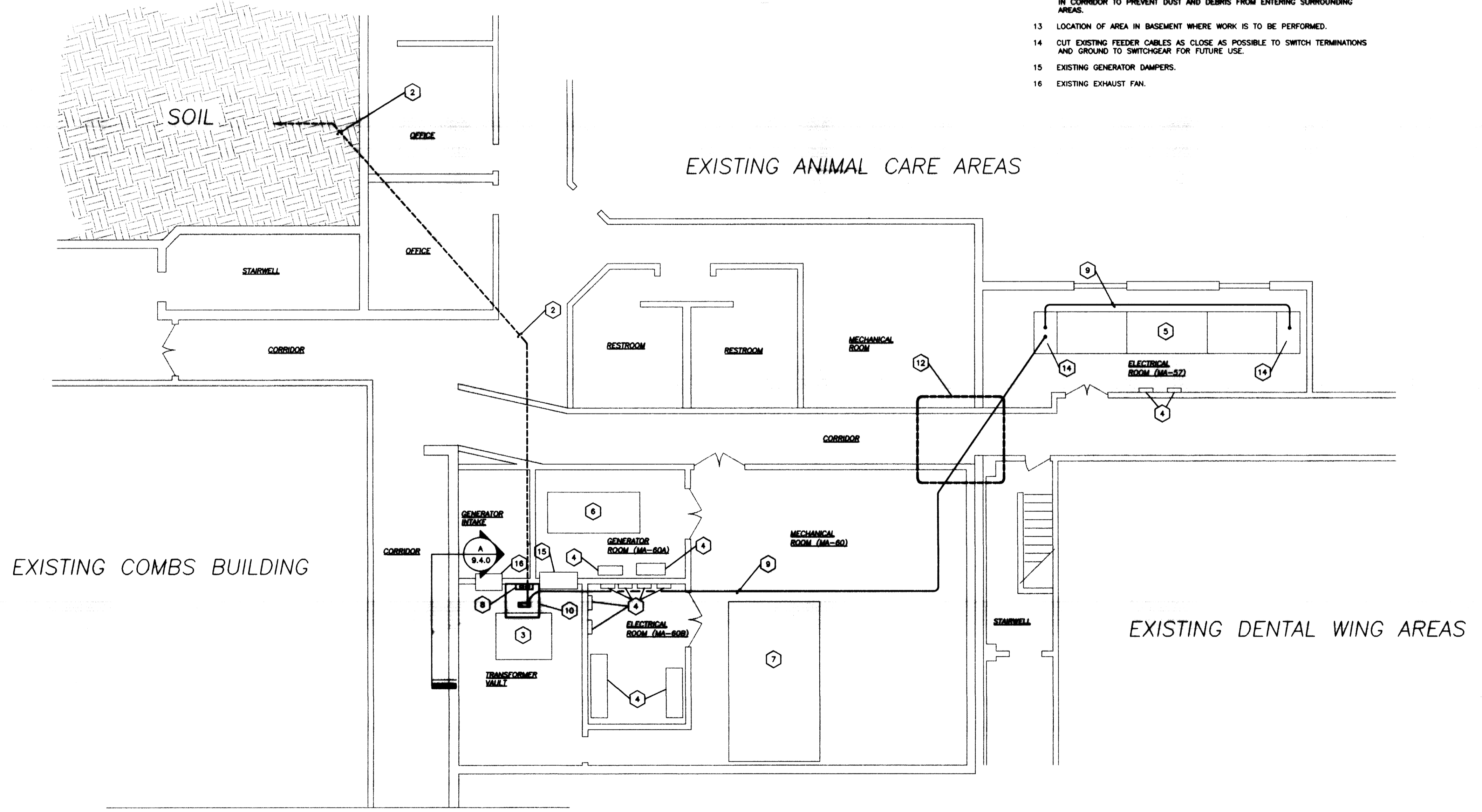
**SECTION A: JUNCTION BOX CONNECTION DETAIL**  
NO SCALE

**ELECTRICAL WORK IN EXISTING (RENOVATED) AREAS**  
 IN EXISTING AREAS WHERE NEW WORK IS SHOWN, REMOVE ALL EXISTING EXPOSED CONDUITS, WIREMOLD, SURFACE AND FLUSH OUTLET BOXES, WIRING DEVICES, PICTURES, PANELS, ETC., NOT REQUIRED FOR NEW ARRANGEMENT.  
 MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).  
 INSTALL ALL NEW WORK AS INDICATED. ALL OTHER MATERIALS REMOVED SHALL BE REMOVED FROM THE JOB SITE OR TURNED OVER TO THE OWNER.  
 IN GENERAL, REMOVE EXISTING WORK INDICATED. THE DRAWINGS SHOW EXISTING WORK TO THE EXTENT POSSIBLE. HOWEVER, ALL EXISTING WORK MAY NOT BE SHOWN ON THE DRAWINGS. REMOVE OR RELOCATE EXISTING MECHANICAL AND ELECTRICAL WORK THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. RELOCATE EXISTING WORK THAT MUST REMAIN IN SERVICE THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. TURN OVER TO OWNER REMOVED EXISTING EQUIPMENT AS INDICATED AND REMOVE OTHER REMOVED EXISTING WORK FROM PROJECT SITE.

- CODED NOTES**
- EXISTING ELECTRIC MANHOLE E-501.
  - ESTIMATED PATH OF EXISTING UNDERGROUND FEEDER CONSISTING OF (2) 1" CONDUITS, ONE FOR EXISTING ANIMAL CARE ELECTRIC SERVICE AND ONE SPARE.
  - EXISTING ANIMAL CARE SERVICE TRANSFORMER.
  - EXISTING ELECTRICAL SWITCHGEAR/PANELBOARDS.
  - EXISTING DENTAL WING DOUBLE-ENDED UNIT SUBSTATION. ADD SECONDARY WIRING TO BOTH TRANSFORMER SECONDARIES. INSTALL NEW METERS INTO INSTRUMENT SECTIONS OF EXISTING SWITCHGEAR.
  - EXISTING EMERGENCY GENERATOR.
  - EXISTING AIR HANDLER.
  - INTERCEPT EXISTING SPARE CONDUITS HERE AND SET A NEMA 4 PULL BOX WITH DIMENSIONS OF 40"x15"x14" (HxWxD) SUITABLE FOR HIGH VOLTAGE CABLING. SEE SECTION "A" DETAIL THIS SHEET.
  - NEW SERVICE FEEDER CONSISTING OF (3) #4/0 (15KV) AND (1) #4/0 GROUND IN 3" CONDUIT.
  - MOUNT A 2'x2'x3" NEMA 4 JUNCTION BOX ON CEILING. MOUNT A 2-PORT JUNCTION IN BOX AND TERMINATE NEW FEEDER WITH ELBOWS ON ONE OF THESE PORTS. CONTINUE NEW FEEDER, USING STACKED ELBOWS, TO EXISTING DENTAL WING SWITCHGEAR AS INDICATED. SEE SECTION "A" DETAIL THIS SHEET.
  - NEW 5-WAY SFB SWITCH TO BE INSTALLED IN ELECTRICAL MANHOLE 501 TO REPLACE THE EXISTING 3-WAY SWITCH.
  - FOR ANY WORK TO BE PERFORMED IN CEILING OF CORRIDOR THAT REQUIRES DEMOLITION OF CEILING A DUST-TIGHT ENCLOSURE SHALL BE CONSTRUCTED IN CORRIDOR TO PREVENT DUST AND DEBRIS FROM ENTERING SURROUNDING AREAS.
  - LOCATION OF AREA IN BASEMENT WHERE WORK IS TO BE PERFORMED.
  - CUT EXISTING FEEDER CABLES AS CLOSE AS POSSIBLE TO SWITCH TERMINATIONS AND GROUND TO SWITCHGEAR FOR FUTURE USE.
  - EXISTING GENERATOR DAMPERS.
  - EXISTING EXHAUST FAN.



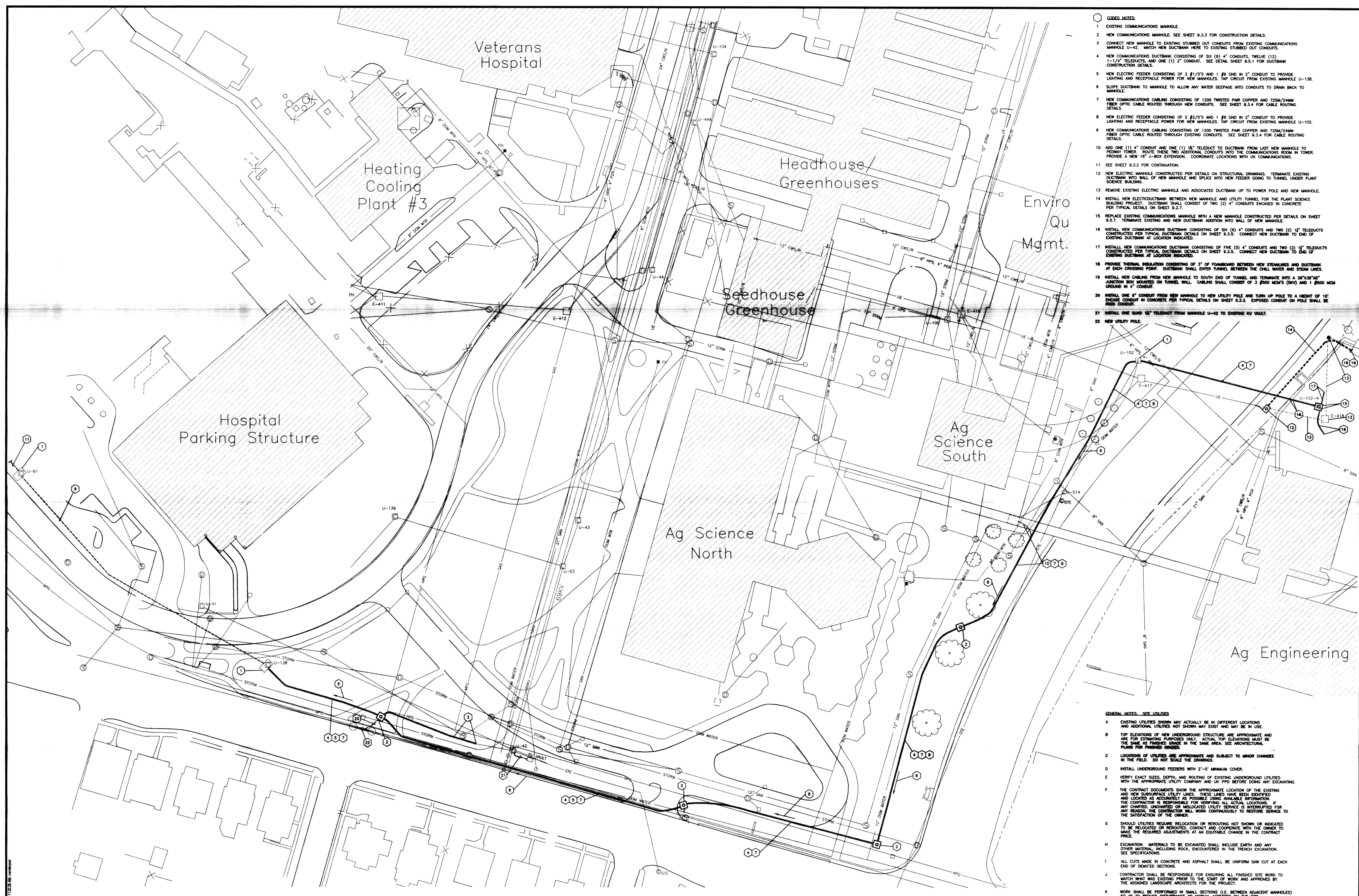
**MODIFIED UK ONE LINE DIAGRAM**  
NO SCALE



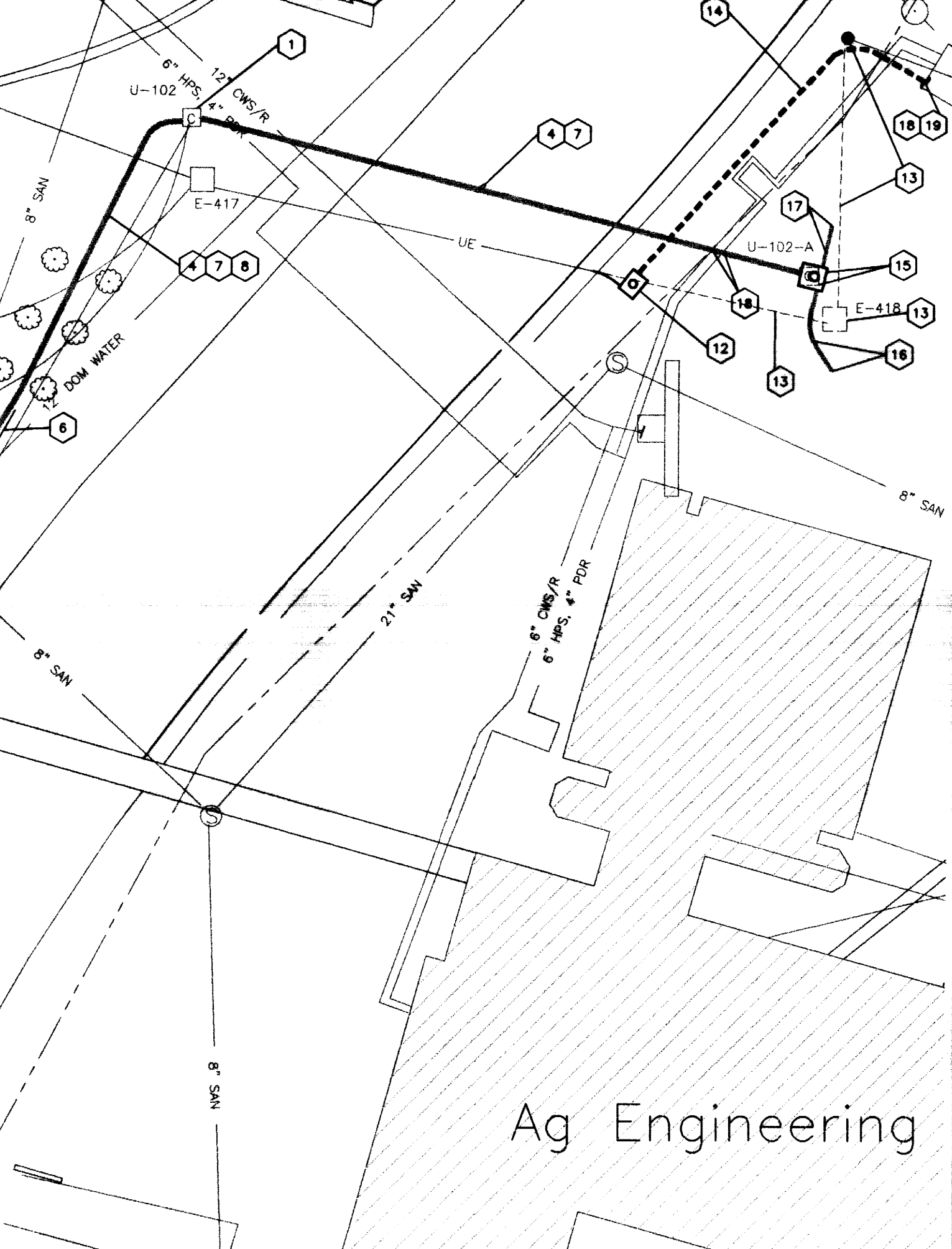
**POWER PLAN - BASEMENT**  
SCALE: 1/8" = 1'-0"

**NOTE:**  
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RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



- COULD NOTES:**
- EXISTING COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
  - NEW COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
  - CONNECT NEW MANHOLE TO EXISTING STUBBED OUT CONDUITS FROM EXISTING COMMUNICATIONS MANHOLE U-42. MATCH NEW DUCTBANK HERE TO EXISTING STUBBED OUT CONDUITS.
  - NEW COMMUNICATIONS DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS, TWELVE (12) 1-1/4" TELEDUCTS, AND ONE (1) 2" CONDUIT. SEE DETAIL SHEET 9.3.1 FOR DUCTBANK CONSTRUCTION DETAILS.
  - NEW ELECTRIC FEEDER CONSISTING OF 2 #1/0'S AND 1 #6 GND IN 2" CONDUIT TO PROVIDE LIGHTING AND RECEPTACLE POWER FOR NEW MANHOLES. TAP CIRCUIT FROM EXISTING MANHOLE U-138.
  - SLOPE DUCTBANK TO MANHOLE TO ALLOW ANY WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - NEW COMMUNICATIONS CABLES CONSISTING OF 1200 TWISTED PAIR COPPER AND 725M/24MM FIBER OPTIC CABLE ROUTED THROUGH NEW CONDUITS. SEE SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
  - NEW ELECTRIC FEEDER CONSISTING OF 2 #2/0'S AND 1 #6 GND IN 2" CONDUIT TO PROVIDE LIGHTING AND RECEPTACLE POWER FOR NEW MANHOLES. TAP CIRCUIT FROM EXISTING MANHOLE U-102.
  - NEW COMMUNICATIONS CABLES CONSISTING OF 1200 TWISTED PAIR COPPER AND 725M/24MM FIBER OPTIC CABLE ROUTED THROUGH EXISTING CONDUITS. SEE SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
  - ADD ONE (1) 4" CONDUIT AND ONE (1) 1/2" TELEDUCT TO DUCTBANK FROM LAST NEW MANHOLE TO PEDWAY TOWER. ROUTE THESE TWO ADDITIONAL CONDUITS INTO THE COMMUNICATIONS ROOM IN TOWER. PROVIDE A NEW 4" 180' EXTENSION. COORDINATE LOCATIONS WITH UK COMMUNICATIONS.
  - SEE SHEET 9.3.2 FOR CONTINUATION.
  - NEW ELECTRIC MANHOLE CONSTRUCTED PER DETAILS ON STRUCTURAL DRAWINGS. TERMINATE EXISTING DUCTBANK INTO WALL OF NEW MANHOLE AND SPICE INTO NEW FEEDER GOING TO TUNNEL UNDER PLANT SCIENCE BUILDING.
  - REMOVE EXISTING ELECTRIC MANHOLE AND ASSOCIATED DUCTBANK UP TO POWER POLE AND NEW MANHOLE.
  - INSTALL NEW ELECTRODUCTBANK BETWEEN NEW MANHOLE AND UTILITY TUNNEL FOR THE PLANT SCIENCE BUILDING PROJECT. DUCTBANK SHALL CONSIST OF TWO (2) 4" CONDUITS ENCASED IN CONCRETE PER TYPICAL DETAILS ON SHEET 9.2.7.
  - REPLACE EXISTING COMMUNICATIONS MANHOLE WITH A NEW MANHOLE CONSTRUCTED PER DETAILS ON SHEET 9.3.7. TERMINATE EXISTING AND NEW DUCTBANK ADDITION INTO WALL OF NEW MANHOLE.
  - INSTALL NEW COMMUNICATIONS DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND TWO (2) 1/2" TELEDUCTS CONSTRUCTED PER TYPICAL DUCTBANK DETAILS ON SHEET 9.3.3. CONNECT NEW DUCTBANK TO END OF EXISTING DUCTBANK AT LOCATION INDICATED.
  - INSTALL NEW COMMUNICATIONS DUCTBANK CONSISTING OF FIVE (5) 4" CONDUITS AND TWO (2) 1/2" TELEDUCTS CONSTRUCTED PER TYPICAL DUCTBANK DETAILS ON SHEET 9.3.3. CONNECT NEW DUCTBANK TO END OF EXISTING DUCTBANK AT LOCATION INDICATED.
  - PROVIDE THERMAL INSULATION CONSISTING OF 3" OF FOAMBOARD BETWEEN NEW STEAMLINES AND DUCTBANK AT EACH CROSSING POINT. DUCTBANK SHALL ENTER TUNNEL BETWEEN THE CHILL WATER AND STEAM LINES.
  - INSTALL NEW CABLES FROM NEW MANHOLE TO SOUTH END OF TUNNEL AND TERMINATE INTO A 36"x36"x18" SECTION BOX MOUNTED ON TUNNEL WALL. CABLES SHALL CONSIST OF 3 #000 MCM'S (3WY) AND 1 #000 MCM GROUND IN 4" CONDUIT.
  - INSTALL ONE 8" CONDUIT FROM NEW MANHOLE TO NEW UTILITY POLE AND TURN UP POLE TO A HEIGHT OF 10'. ENCASE CONDUIT IN CONCRETE PER TYPICAL DETAILS ON SHEET 9.3.3. EXPOSED CONDUIT ON POLE SHALL BE PROTECTED WITH 1/2" POLYURETHANE FOAM INSULATION.
  - INSTALL ONE QUAD 1/2" TELEDUCT FROM MANHOLE U-42 TO EXISTING KIP WALK.
  - NEW UTILITY POLE.



- GENERAL NOTES - SITE UTILITIES**
- EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
  - TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
  - LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
  - VERIFY EXACT SIZES, DEPTH, AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND UK PPD BEFORE DOING ANY EXCAVATING.
  - THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHANGED, UNLOCATED OR MISLOCATED UTILITY SERVICE IS IDENTIFIED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
  - EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIALS, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
  - ALL CUTS MADE IN CONCRETE AND ASPHALT SHALL BE UNIFORM SAW CUT AT EACH END OF DEMOTED SECTIONS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL FINISHED SITE WORK TO MATCH WHAT WAS EXISTING PRIOR TO THE START OF WORK AND APPROVED BY THE ASSIGNED LANDSCAPE ARCHITECTS FOR THE PROJECT.
  - WORK SHALL BE PERFORMED IN SMALL SECTIONS (I.E. BETWEEN ADJACENT MANHOLES) SO AS TO REDUCE DISTURBANCE OF NORMAL ACTIVITIES ON THE SITE.
  - KEEP ALL EXCAVATION WORK OUTSIDE OF TREE DRIP LINES WHENEVER POSSIBLE. WHENEVER ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REPAIR.
  - ALL TRENCH PATHS FOR EACH NEW SECTION OF DUCTBANK SHALL BE STAKED OUT FOR TRENCH WIDTH AND APPROVED BY OWNER, ARCHITECTS, AND ENGINEERS PRIOR TO START OF EXCAVATION.
  - REFER TO H.V.A.C. DETAILS (SHEET 8.9.2) FOR UTILITY MARKER DETAIL.

**NEW COMMUNICATION DUCTBANK - AG SCIENCE**  
SCALE: 1" = 40'

**NOTE:**  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONTACTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

RECORD DRAWINGS DATE 11/10/03  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

**CJM**  
CHRISMAN MILLER WOODFORD, INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
505 S. BROADWAY LEXINGTON, KENTUCKY 40517 (606) 254-8423

**SF**  
Staggs and Fisher  
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2000 Lexington Road  
Lexington, Kentucky 40517

**AGRICULTURAL SCIENCE - ELECTRICAL SITE PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE

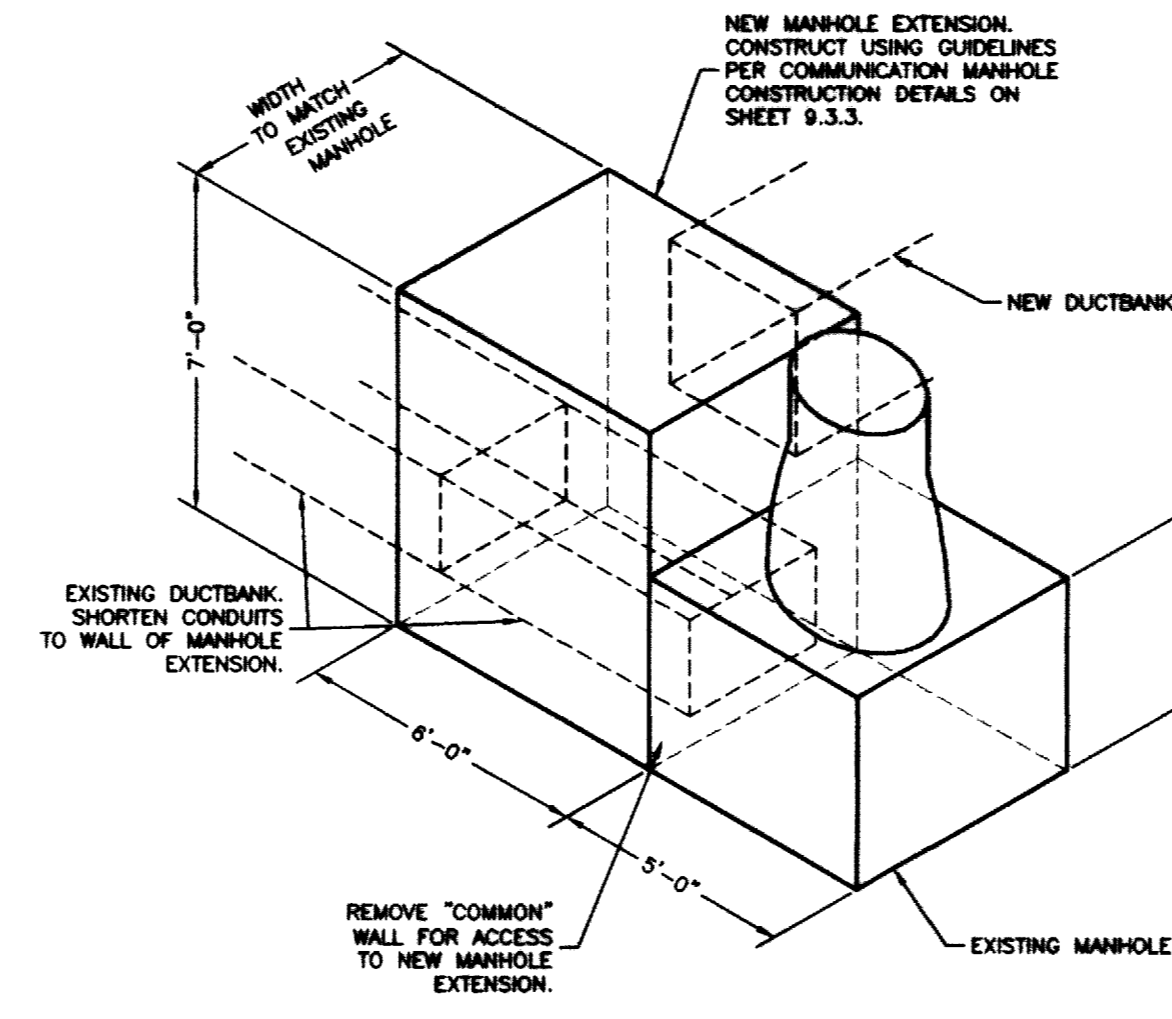
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DRAWN BY: wph  
CHECKED BY: gdc  
REVISION:  
DATE 4/17/01 REVISION 1  
8/28/01 REVISION 2  
8/30/01 REVISION 3  
9/17/01 REVISION 4

SHEET NUMBER  
**9.5.0**

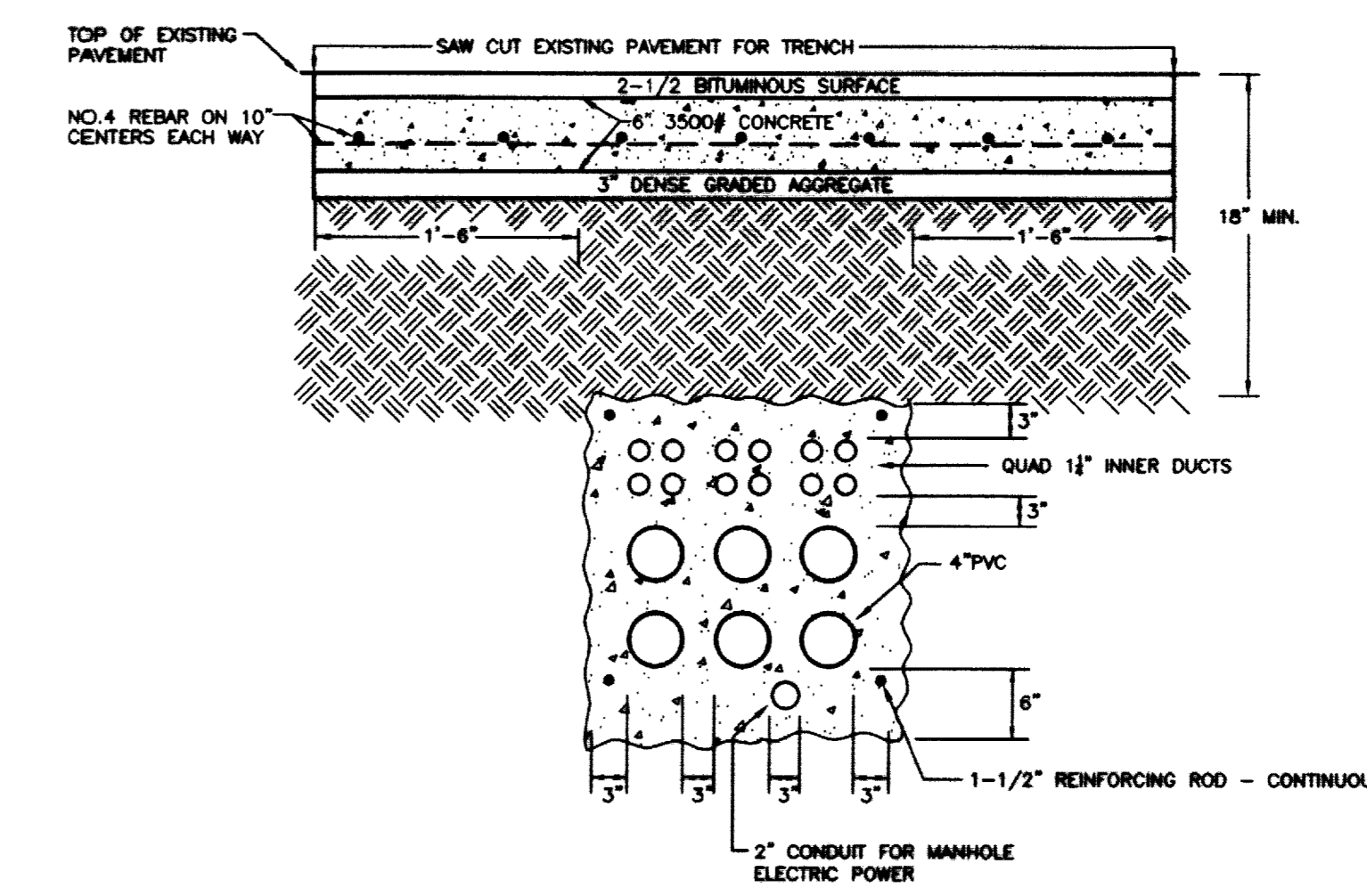
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AREA #5 - AG SCIENCE



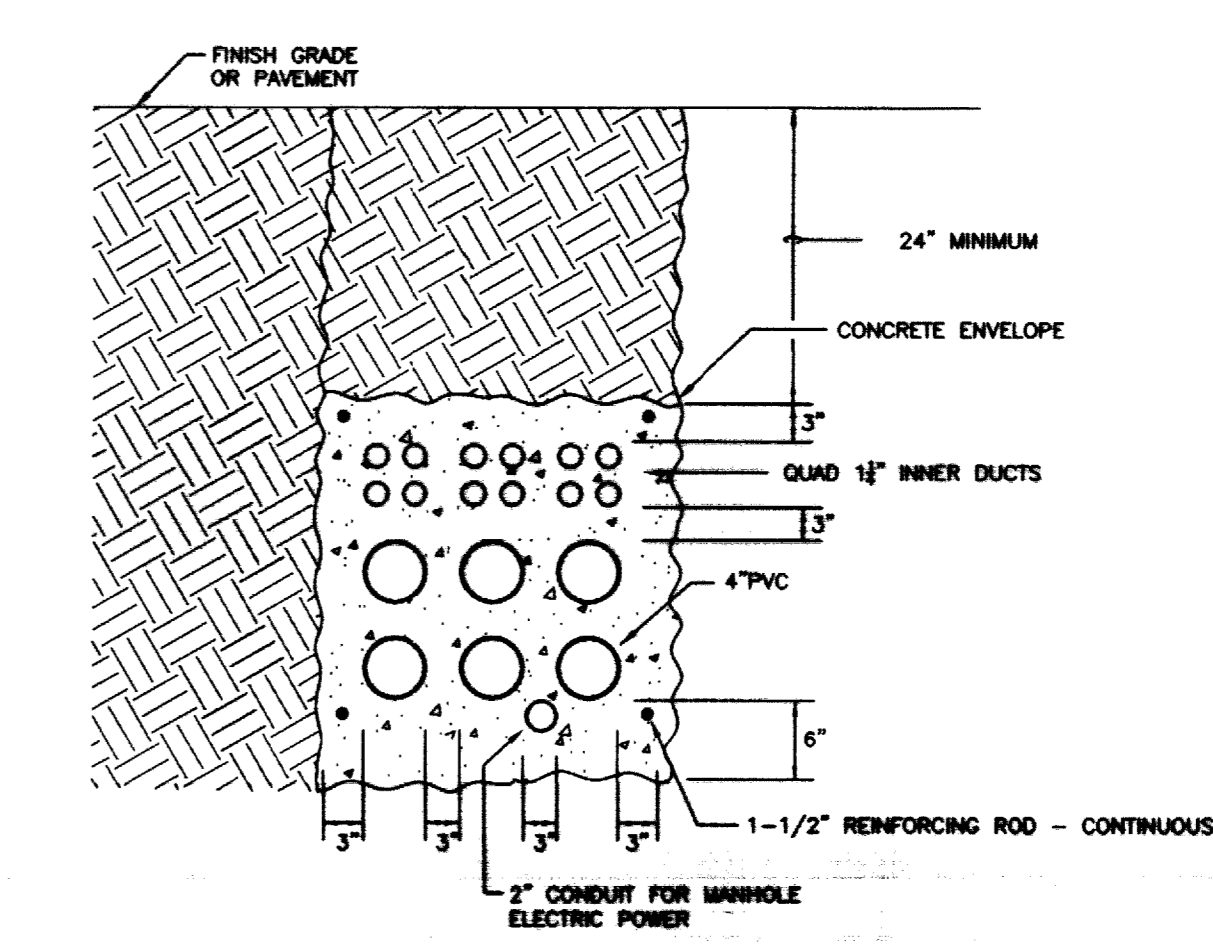


**EXTENSION TO MANHOLE U-102**



**TYPICAL INSTALLATION DETAIL OF DUCTBANK UNDER ROADWAY**  
NO SCALE

NOTE:  
SEE SHEET 9.5.0 FOR  
NUMBER OF CONDUITS



**TYPICAL COMMUNICATION CONDUIT INSTALLATION DETAIL**  
NO SCALE

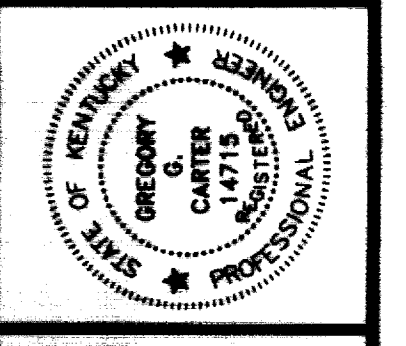
NOTE:  
SEE SHEET 9.5.0 FOR  
NUMBER OF CONDUITS

NOTE:  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

**CJM**  
CHRISTOPHER MILLER, P.E.  
REGISTERED PROFESSIONAL ENGINEER  
KENTUCKY  
1000 S. BRADWAY  
LEXINGTON, KENTUCKY 40517

**SF**  
Staggs and Fisher  
Consulting Engineers, Inc.  
Lexington, Kentucky 40517



ALL WORK TO BE DONE BY CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND STRUCTURES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL MAINTAIN ALL RECORDS OF THE WORK AND SHALL SUBMIT THEM TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

AGRICULTURAL SCIENCE - ELECTRICAL DETAILS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: WFW  
CHECKED BY: GAC  
REVISED:  
DATE  
SHEET NUMBER  
**9.5.1**  
PROJECT NUMBER  
99024.02  
174 C-2

**AREA #5 - AG SCIENCE**



CERTIFICATE OF

SUBSTANTIAL COMPLETION & BENEFICIAL OCCUPANCY (All Data On This Sheet Must Be Typed)

1999

PROJECT NUMBER: 1949.0 PROJECT NAME: UTILITY UPGRADE - PHASE I

PROJECT LOCATION: HOSPITAL DRIVE

PROJECT GROSS SQ. FT. 15,000 (PLANT ONLY) CONSTRUCTION COST: DETERMINED AT COMPLETION

SQ. FT.: RENOVATION 15,000 ADDITION N/A NEW BUILDING N/A

SPRINKLER SYSTEM: YES X NO IF YES, % TYPE:

OTHER SYSTEMS:

SPRINKLER COMPANY:

ADDRESS: PHONE:

ROOF CONSTRUCTION: EXTERIOR SKIN:

FLOOR CONSTRUCTION: INTERIOR WALLS:

A list of items to be completed or corrected, prepared by the Consultant and Owner's Representative, is appended hereto. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

STAGGS & FISHER Consultant By [Signature] Date 7/25/02

The contractor will complete or correct the Work on the list of items appended hereto with 30 days from the above Date of Substantial Completion.

ENGLISH PAVING Contractor By [Signature] V.P. Date 7/23/02

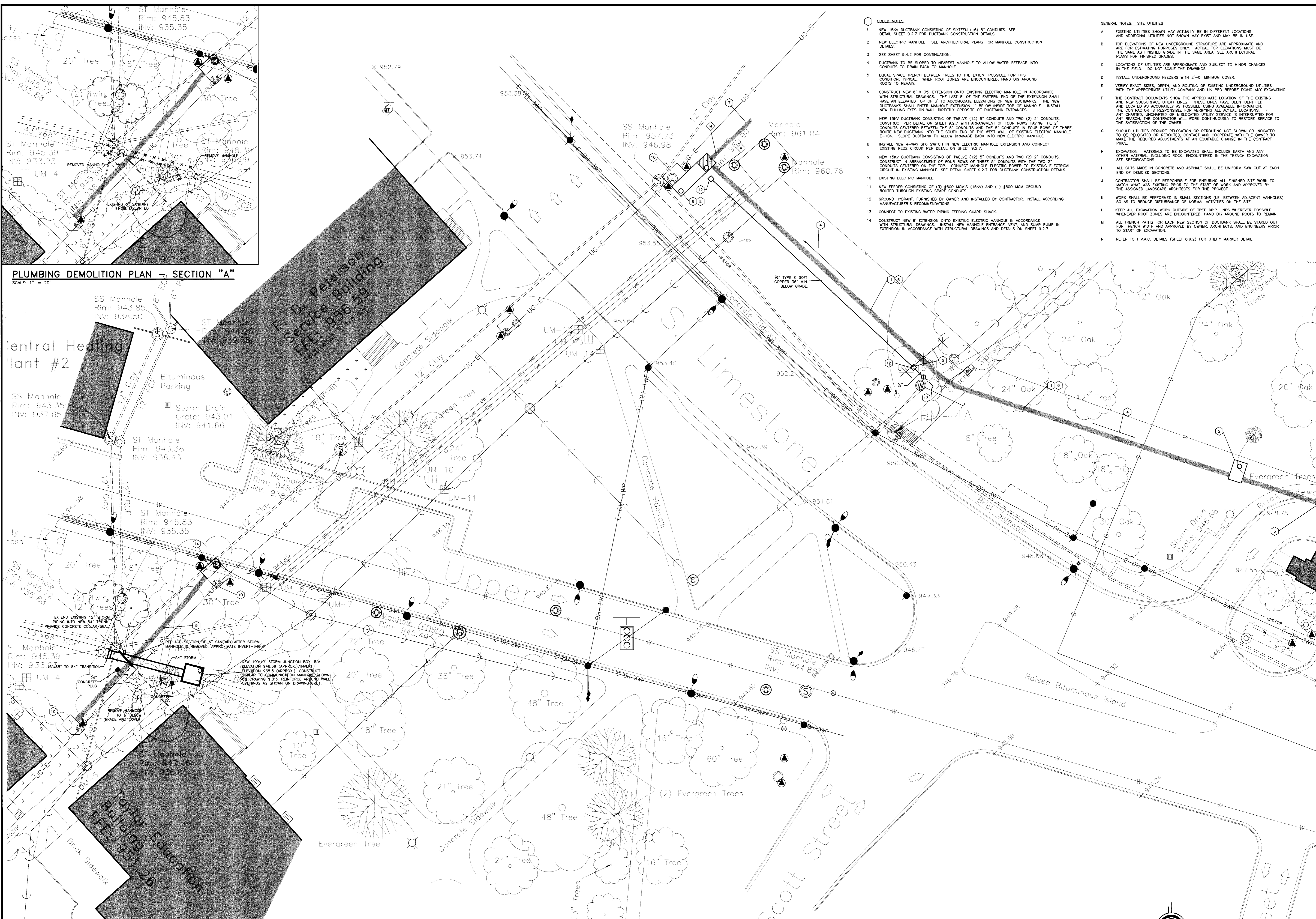
The Owner accepts the Work or designated portion thereof as substantially complete and will assume full possession and Beneficial Occupancy thereof at 12:01 A.M. on 06/01/02 (date). The Owner agrees to assume the responsibility of the operation, maintenance, utilities, and insurance of the Work or designated portion thereof beginning on the above mentioned Date of Substantial Completion. The year-end inspection is hereby scheduled for 06/01/03 (date).

UNIVERSITY OF KENTUCKY Project Manager Date

This action has been acknowledged by of (Sector).

- Director of Capital Project Management
CPMD Project Manager
Sector Representative
Consultant
Contractor
Beneficial Occupancy File
Business Office
Risk Management
Physical Plant Division
Equipment Inventory

Senior Accountant Date



**PLUMBING DEMOLITION PLAN - SECTION "A"**  
SCALE: 1" = 20'

**NOTICE:**  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

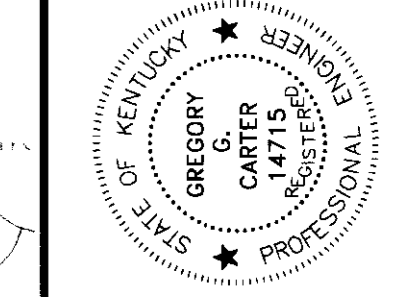
**ELECTRICAL SITE PLAN - SECTION "A"**  
SCALE: 1" = 20'

- CODED NOTES:**
1. NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  2. NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  3. SEE SHEET 9.4.2 FOR CONTINUATION.
  4. DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  5. EQUAL SPACE TRENCH BETWEEN TREES TO THE EXTENT POSSIBLE FOR THIS CONDITION. TYPICAL WHEN ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMAIN.
  6. CONSTRUCT NEW 8" X 35' EXTENSION ONTO EXISTING ELECTRIC MANHOLE IN ACCORDANCE WITH STRUCTURAL DRAWINGS. THE LAST 8' OF THE EASTERN END OF THE EXTENSION SHALL HAVE AN ELEVATED TOP OF 3' TO ACCOMMODATE ELEVATIONS OF NEW DUCTBANKS. THE NEW DUCTBANKS SHALL ENTER MANHOLE EXTENSION 1' BELOW INSIDE TOP OF MANHOLE. INSTALL NEW PULLING EYES ON WALL DIRECTLY OPPOSITE OF DUCTBANK ENTRANCES.
  7. NEW 15KV DUCTBANK CONSISTING OF TWELVE (12) 5" CONDUITS AND TWO (2) 3" CONDUITS. CONSTRUCT PER DETAIL ON SHEET 9.2.7 WITH ARRANGEMENT OF FOUR ROWS HAVING THE 3" CONDUITS CENTERED BETWEEN THE 5" CONDUITS AND THE 5" CONDUITS IN FOUR ROWS OF THREE. ROUTE NEW DUCTBANK INTO THE SOUTH END OF THE WEST WALL OF EXISTING ELECTRIC MANHOLE E-106. SLOPE DUCTBANK TO ALLOW DRAINAGE BACK INTO NEW ELECTRIC MANHOLE.
  8. INSTALL NEW 4-WAY SF6 SWITCH IN NEW ELECTRIC MANHOLE EXTENSION AND CONNECT EXISTING REDD CIRCUIT PER DETAIL ON SHEET 9.2.7.
  9. NEW 15KV DUCTBANK CONSISTING OF TWELVE (12) 5" CONDUITS AND TWO (2) 3" CONDUITS. CONSTRUCT IN ARRANGEMENT OF FOUR ROWS OF THREE 5" CONDUITS WITH THE TWO 3" CONDUITS CENTERED ON THE TOP. CONNECT MANHOLE ELECTRIC POWER TO EXISTING ELECTRICAL CIRCUIT IN EXISTING MANHOLE. SEE DETAIL SHEET 9.2.1 FOR DUCTBANK CONSTRUCTION DETAILS.
  10. EXISTING ELECTRIC MANHOLE.
  11. NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUITS.
  12. GROUND HYDRANT FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR. INSTALL ACCORDING MANUFACTURER'S RECOMMENDATIONS.
  13. CONNECT TO EXISTING WATER PIPING FEEDING GUARD SHACK.
  14. CONSTRUCT NEW 6" EXTENSION ONTO EXISTING ELECTRIC MANHOLE IN ACCORDANCE WITH STRUCTURAL DRAWINGS. INSTALL NEW MANHOLE ENTRANCE, VENT AND SLUMP PUMP IN EXTENSION IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS ON SHEET 9.2.7.

- GENERAL NOTES - SITE UTILITIES:**
- A. EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
  - B. TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
  - C. LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - D. INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
  - E. VERIFY EXACT SIZES, DEPTH, AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND UK PPD BEFORE DOING ANY EXCAVATING.
  - F. THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTER, UNLIMITED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - G. SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
  - H. EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
  - I. ALL CUTS MADE IN CONCRETE AND ASPHALT SHALL BE UNIFORM SAW CUT AT EACH END OF EXCAVATED SECTIONS.
  - J. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL FINISHED SITE WORK TO MATCH WHAT WAS EXISTING PRIOR TO THE START OF WORK AND APPROVED BY THE ASSIGNED LANDSCAPE ARCHITECTS FOR THE PROJECT.
  - K. WORK SHALL BE PERFORMED IN SMALL SECTIONS (I.E. BETWEEN ADJACENT MANHOLES) SO AS TO REDUCE DISTURBANCE OF NORMAL ACTIVITIES ON THE SITE.
  - L. KEEP ALL EXCAVATION WORK OUTSIDE OF TREE DRIP LINES WHEREVER POSSIBLE. WHENEVER ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMAIN.
  - M. ALL TRENCH PATHS FOR EACH NEW SECTION OF DUCTBANK SHALL BE STAKED OUT FOR TRENCH WIDTH AND APPROVED BY OWNER, ARCHITECTS, AND ENGINEERS PRIOR TO START OF EXCAVATION.
  - N. REFER TO H.V.A.C. DETAILS (SHEET 8.9.2) FOR UTILITY MARKER DETAIL.

**CJM**  
CONSULTANTS: JAMES C. JONES, P.E., P.E.C.C., P.E.  
ARCHITECTS: JAMES C. JONES, P.E., P.E.C.C., P.E.  
LEVINSON, KENTUCKY 40506

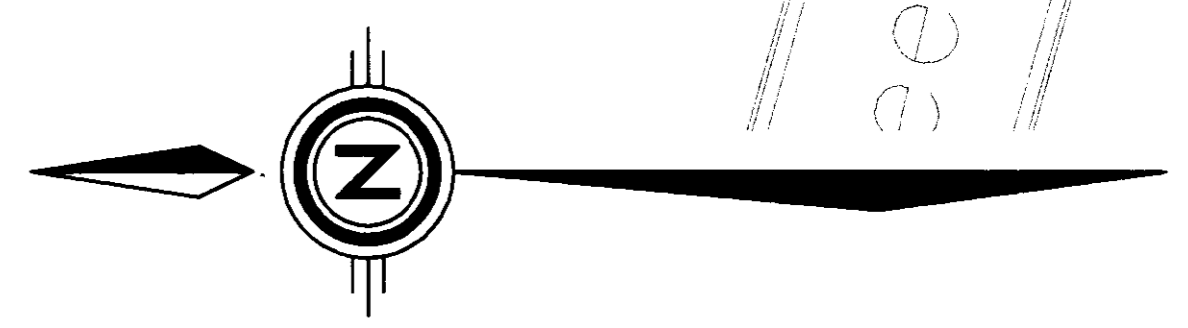
**SF**  
Staggs and Fisher  
Consulting Engineers, Inc.  
Lexington, Kentucky 40517



**ELECTRICAL SITE PLAN - SECTION "A"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

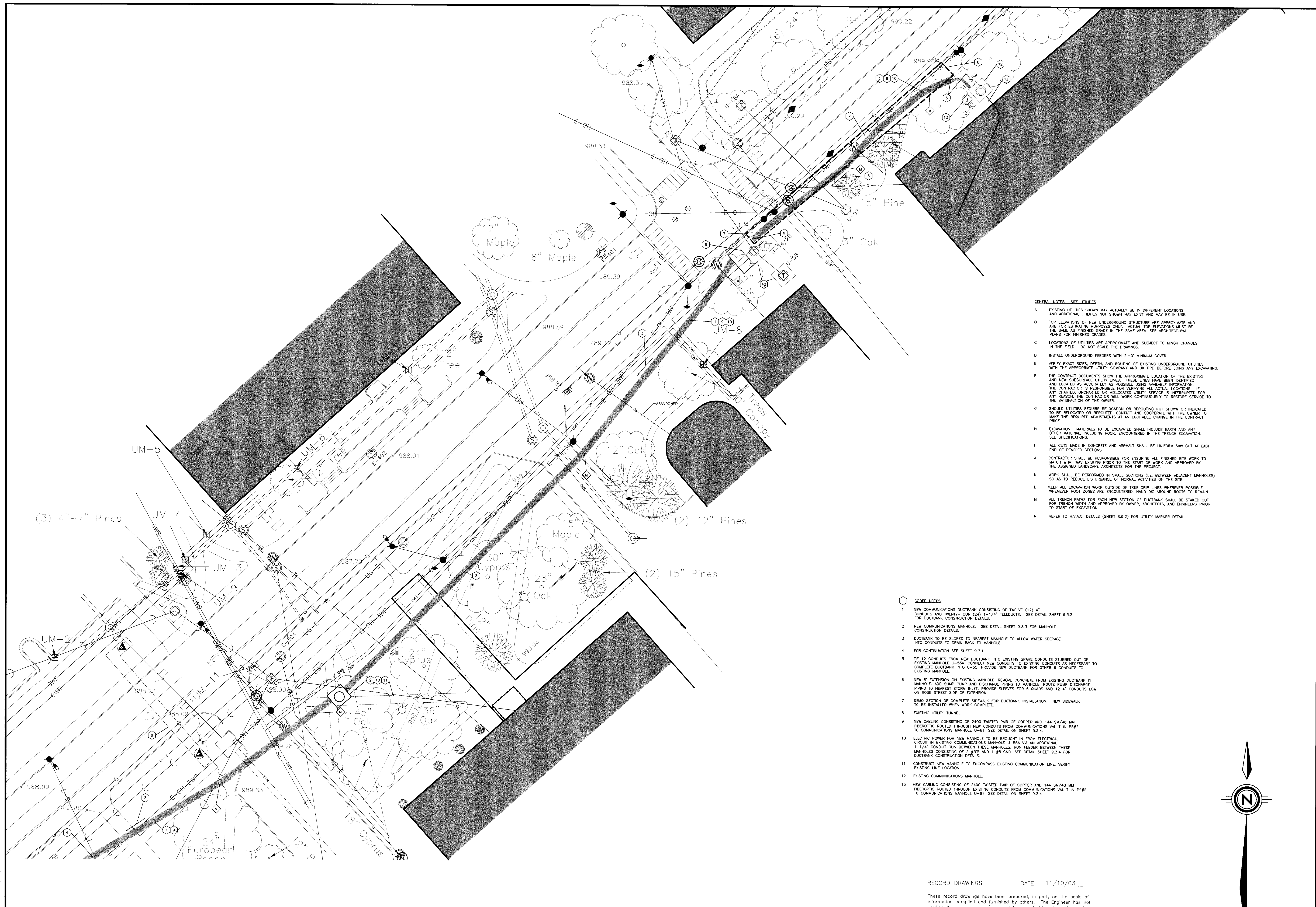
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DRAWN BY: WPN  
CHECKED BY: GGC  
REVISED: DATE

SHEET NUMBER  
**9.2.0**  
PROJECT NUMBER  
99024.02



**AREA #4 - LIMESTONE**

C:\projects\1103\1103.dwg, Plot Date: 11/10/03 10:30 AM, Plotter: HP DesignJet 500



- GENERAL NOTES - SITE UTILITIES**
- A. EXISTING UTILITIES SHOWN MAY ACTUALLY BE IN DIFFERENT LOCATIONS AND ADDITIONAL UTILITIES NOT SHOWN MAY EXIST AND MAY BE IN USE.
  - B. TOP ELEVATIONS OF NEW UNDERGROUND STRUCTURE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL TOP ELEVATIONS MUST BE THE SAME AS FINISHED GRADE IN THE SAME AREA. SEE ARCHITECTURAL PLANS FOR FINISHED GRADES.
  - C. LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO MINOR CHANGES IN THE FIELD. DO NOT SCALE THE DRAWINGS.
  - D. INSTALL UNDERGROUND FEEDERS WITH 2'-0" MINIMUM COVER.
  - E. VERIFY EXACT SIZES, DEPTH, AND ROUTING OF EXISTING UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND UK PRIOR TO ANY EXCAVATING.
  - F. THE CONTRACT DOCUMENTS SHOW THE APPROXIMATE LOCATION OF THE EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTERED, UNCHARTERED OR MISCLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER.
  - G. SHOULD UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.
  - H. EXCAVATION: MATERIALS TO BE EXCAVATED SHALL INCLUDE EARTH AND ANY OTHER MATERIAL, INCLUDING ROCK, ENCOUNTERED IN THE TRENCH EXCAVATION. SEE SPECIFICATIONS.
  - I. ALL CUTS MADE IN CONCRETE AND ASPHALT SHALL BE UNIFORM SAW CUT AT EACH END OF DEMO'D SECTIONS.
  - J. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL FINISHED SITE WORK TO MATCH WHAT WAS EXISTING PRIOR TO THE START OF WORK AND APPROVED BY THE ASSIGNED LANDSCAPE ARCHITECTS FOR THE PROJECT.
  - K. WORK SHALL BE PERFORMED IN SMALL SECTIONS (I.E. BETWEEN ADJACENT MANHOLES) SO AS TO REDUCE DISTURBANCE OF NORMAL ACTIVITIES ON THE SITE.
  - L. KEEP ALL EXCAVATION WORK OUTSIDE OF TREE DRIP LINES WHEREVER POSSIBLE. WHENEVER ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMAIN.
  - M. ALL TRENCH PATHS FOR EACH NEW SECTION OF DUCTBANK SHALL BE STAKED OUT FOR TRENCH WIDTH AND APPROVED BY OWNER, ARCHITECTS, AND ENGINEERS PRIOR TO START OF EXCAVATION.
  - N. REFER TO H.V.A.C. DETAILS (SHEET 8.9.2) FOR UTILITY MARKER DETAIL.

- CODED NOTES:**
1. NEW COMMUNICATIONS DUCTBANK CONSISTING OF TWELVE (12) 4" CONDUITS AND TWENTY-FOUR (24) 1-1/4" TELEDUCTS. SEE DETAIL SHEET 9.3.3 FOR DUCTBANK CONSTRUCTION DETAILS.
  2. NEW COMMUNICATIONS MANHOLE. SEE DETAIL SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.
  3. DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  4. FOR CONTINUATION SEE SHEET 9.3.1.
  5. THE 12 CONDUITS FROM NEW DUCTBANK INTO EXISTING SPARE CONDUITS STUBBED OUT OF EXISTING MANHOLE U-55A. CONNECT NEW CONDUITS TO EXISTING CONDUITS AS NECESSARY TO COMPLETE DUCTBANK INTO U-55. PROVIDE NEW DUCTBANK FOR OTHER 6 CONDUITS TO EXISTING MANHOLE.
  6. NEW 8' EXTENSION ON EXISTING MANHOLE. REMOVE CONCRETE FROM EXISTING DUCTBANK IN MANHOLE. ADD SUMP PUMP AND DISCHARGE PIPING TO MANHOLE. ROUTE PUMP DISCHARGE PIPING TO NEAREST STORM INLET. PROVIDE SLEEVES FOR 6 QUADS AND 12 4" CONDUITS LOW ON ROSE STREET SIDE OF EXTENSION.
  7. DEMO SECTION OF COMPLETE SIDEWALK FOR DUCTBANK INSTALLATION. NEW SIDEWALK TO BE INSTALLED WHEN WORK COMPLETE.
  8. EXISTING UTILITY TUNNEL.
  9. NEW CABLEING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH NEW CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4.
  10. ELECTRIC POWER FOR NEW MANHOLE TO BE BROUGHT IN FROM ELECTRICAL CIRCUIT IN EXISTING COMMUNICATIONS MANHOLE U-55A VIA AN ADDITIONAL 1-1/4" CONDUIT RUN BETWEEN THESE MANHOLES. RUN FEEDER BETWEEN THESE MANHOLES CONSISTING OF 2 #3'S AND 1 #8 OND. SEE DETAIL SHEET 9.3.4 FOR DUCTBANK CONSTRUCTION DETAILS.
  11. CONSTRUCT NEW MANHOLE TO ENCOMPASS EXISTING COMMUNICATION LINE. VERIFY EXISTING LINE LOCATION.
  12. EXISTING COMMUNICATIONS MANHOLE.
  13. NEW CABLEING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH EXISTING CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4.

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**ROSE - ELECTRICAL SITE PLAN - SECTION "A"**  
 SCALE: 1" = 20'

RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.



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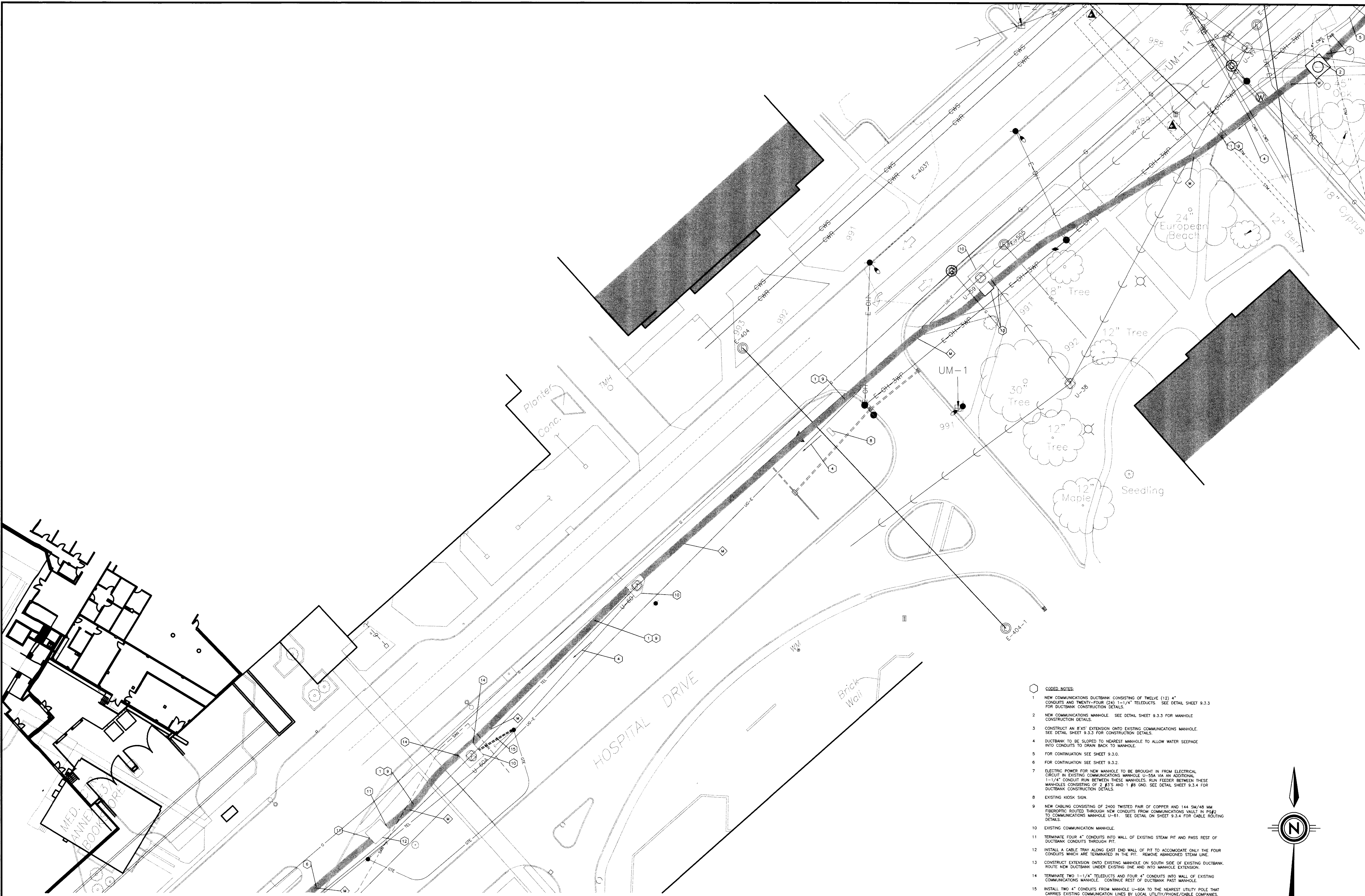
**FAILURE TO ABIDE BY DESIGN DOCUMENTS OR THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY AND COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.**

**ELECTRICAL SITE PLAN - SECTION "A"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHEET: PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: WFW  
 CHECKED BY: GGC  
 REVISED: #  
 DATE

SHEET NUMBER: **9.3.0**  
 PROJECT NUMBER: 99024.02

174 C-2 25518



**NOTE:**  
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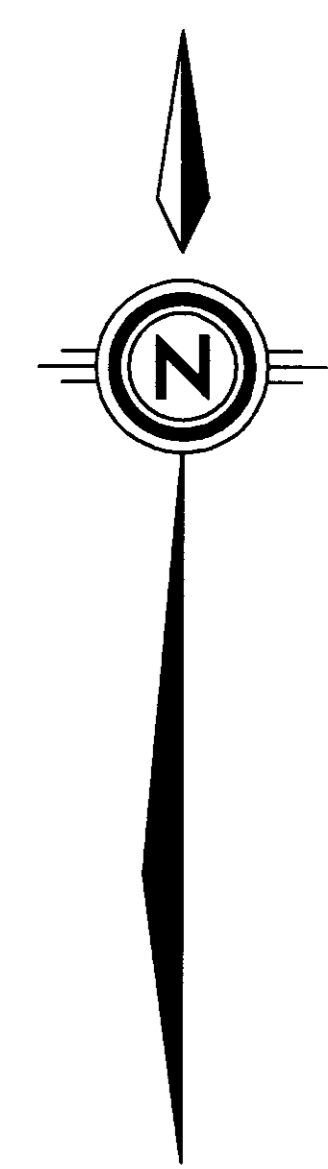
**ROSE — ELECTRICAL SITE PLAN — SECTION "B"**  
 SCALE: 1" = 20'

- GENERAL NOTES:**
1. NEW COMMUNICATIONS DUCTBANK CONSISTING OF TWELVE (12) 4" CONDUITS AND TWENTY-FOUR (24) 1-1/4" TELEDUCTS. SEE DETAIL SHEET 9.3.3 FOR DUCTBANK CONSTRUCTION DETAILS.
  2. NEW COMMUNICATIONS MANHOLE. SEE DETAIL SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.
  3. CONSTRUCT AN 8'X5' EXTENSION ONTO EXISTING COMMUNICATIONS MANHOLE. SEE DETAIL SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
  4. DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  5. FOR CONTINUATION SEE SHEET 9.3.0.
  6. FOR CONTINUATION SEE SHEET 9.3.2.
  7. ELECTRIC POWER FOR NEW MANHOLE TO BE BROUGHT IN FROM ELECTRICAL CIRCUIT IN EXISTING COMMUNICATIONS MANHOLE U-55A VIA AN ADDITIONAL 1-1/4" CONDUIT RUN BETWEEN THESE MANHOLES. RUN FEEDER BETWEEN THESE MANHOLES CONSISTING OF 2 #3'S AND 1 #8 GND. SEE DETAIL SHEET 9.3.4 FOR DUCTBANK CONSTRUCTION DETAILS.
  8. EXISTING HIGHWAY SIGN.
  9. NEW CABLES CONSISTING OF 3400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH NEW CONDUITS FROM COMMUNICATIONS WALK IN PSE2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
  10. EXISTING COMMUNICATION MANHOLE.
  11. TERMINATE FOUR 4" CONDUITS INTO WALL OF EXISTING STEAM PIT AND PASS REST OF DUCTBANK CONDUITS THROUGH PIT.
  12. INSTALL A CABLE TRAY ALONG EAST END WALL OF PIT TO ACCOMMODATE ONLY THE FOUR CONDUITS WHICH ARE TERMINATED IN THE PIT. REMOVE ABANDONED STEAM LINE.
  13. CONSTRUCT EXTENSION ONTO EXISTING MANHOLE ON SOUTH SIDE OF EXISTING DUCTBANK. ROUTE NEW DUCTBANK UNDER EXISTING ONE AND INTO MANHOLE EXTENSION.
  14. TERMINATE TWO 1-1/4" TELEDUCTS AND FOUR 4" CONDUITS INTO WALL OF EXISTING COMMUNICATIONS MANHOLE. CONTINUE REST OF DUCTBANK PAST MANHOLE.
  15. INSTALL TWO 4" CONDUITS FROM MANHOLE U-60A TO THE NEAREST UTILITY POLE THAT CARRIES EXISTING COMMUNICATION LINES BY LOCAL UTILITY/PHONE/CABLE COMPANIES. ENCASE THE CONDUITS IN CONCRETE PER TYPICAL DETAILS ON SHEET 9.3.3. TURN CONDUITS UP POLE 10' IN RIGID CONDUIT.

RECORD DRAWINGS DATE 11/10/03

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STAGGS & FISHER CONSULTING ENGINEERS, INC.



AREA #2 - ROSE ST.

CHRISTIAN MILLER WOODFORD, INC.  
 ENGINEERS ARCHITECTS  
 225 S. BOWMAN (903) 242-2222

Stagg and Fisher  
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 2024 Spoutman Drive  
 Lexington, Kentucky 40517

VALUE TO BE MADE BY  
 SPECIAL DOCUMENT OR  
 TO OBTAIN QUANTITIES  
 SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.  
 CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND  
 CONDITIONS OF EXISTING UTILITIES AND  
 STRUCTURES AND SHALL BE RESPONSIBLE FOR  
 ANY ERRORS OR OMISSIONS THAT MAY BE  
 INCORPORATED AS A RESULT OF ERRONEOUS  
 INFORMATION PROVIDED BY OTHERS.

PROJECT TITLE  
 ELECTRICAL SITE PLAN - SECTION "B"  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

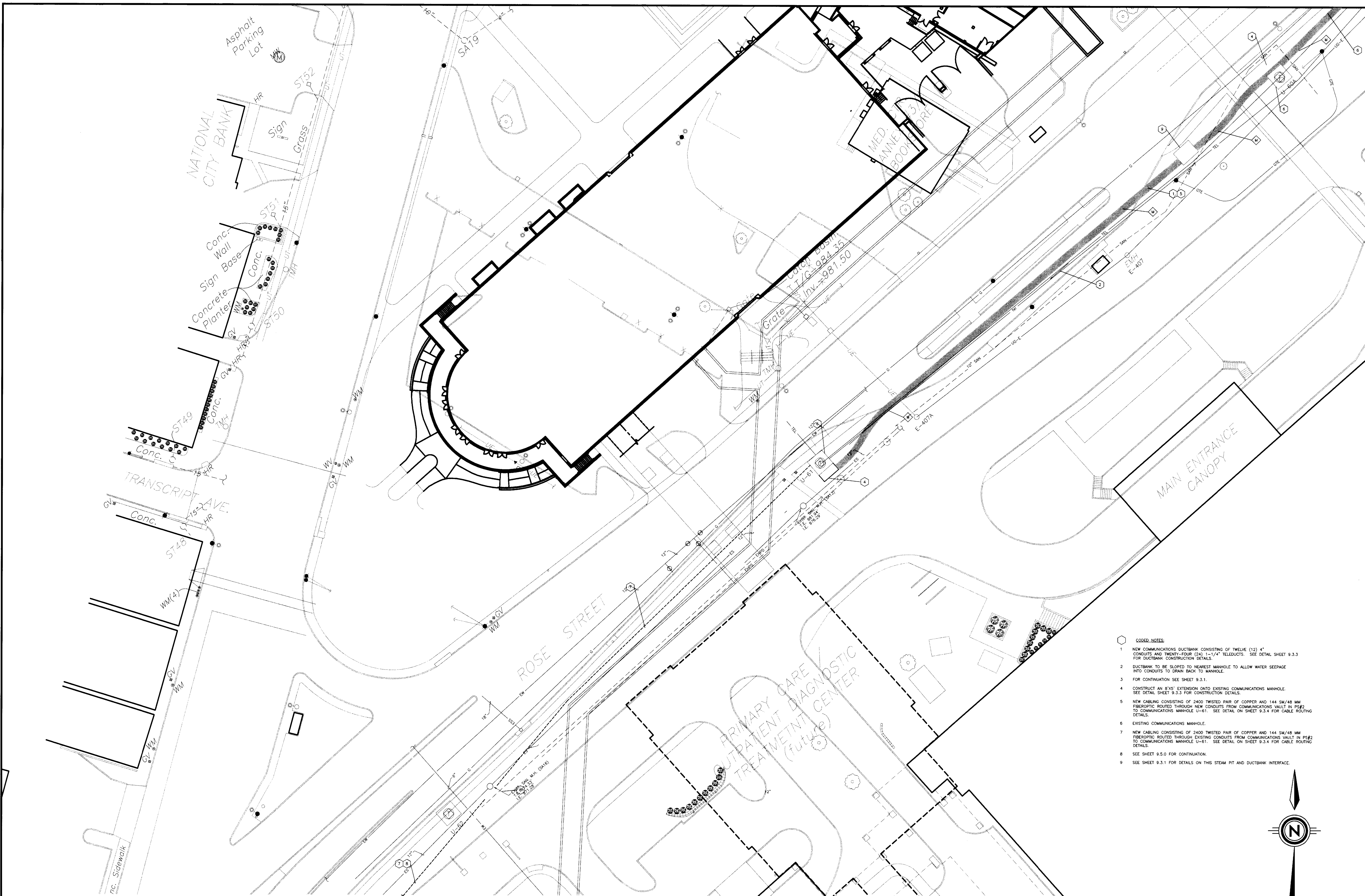
SHEET NUMBER  
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PROJECT NUMBER  
 99024.02

SHEET NUMBER  
 25519

PROJECT NUMBER  
 99024.02

SHEET NUMBER  
 25519



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**ROSE - ELECTRICAL SITE PLAN - SECTION "C"**  
 SCALE: 1" = 20'

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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

- CODED NOTES:**
- 1 NEW COMMUNICATIONS DUCTBANK CONSISTING OF TWELVE (12) 4" CONDUITS AND TWENTY-FOUR (24) 1-1/4" TELEDUCTS. SEE DETAIL SHEET 9.3.3 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 3 FOR CONTINUATION SEE SHEET 9.3.1.
  - 4 CONSTRUCT AN 8"X' EXTENSION ONTO EXISTING COMMUNICATIONS MANHOLE. SEE DETAIL SHEET 9.3.3 FOR CONSTRUCTION DETAILS.
  - 5 NEW CABLEING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH NEW CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
  - 6 EXISTING COMMUNICATIONS MANHOLE.
  - 7 NEW CABLEING CONSISTING OF 2400 TWISTED PAIR OF COPPER AND 144 5M/48 MM FIBEROPTIC ROUTED THROUGH EXISTING CONDUITS FROM COMMUNICATIONS VAULT IN PS#2 TO COMMUNICATIONS MANHOLE U-61. SEE DETAIL ON SHEET 9.3.4 FOR CABLE ROUTING DETAILS.
  - 8 SEE SHEET 9.5.0 FOR CONTINUATION.
  - 9 SEE SHEET 9.3.1 FOR DETAILS ON THIS STEAM PIT AND DUCTBANK INTERFACE.

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 LEXINGTON, KENTUCKY 40517

STATE OF KENTUCKY  
 CATEGORY  
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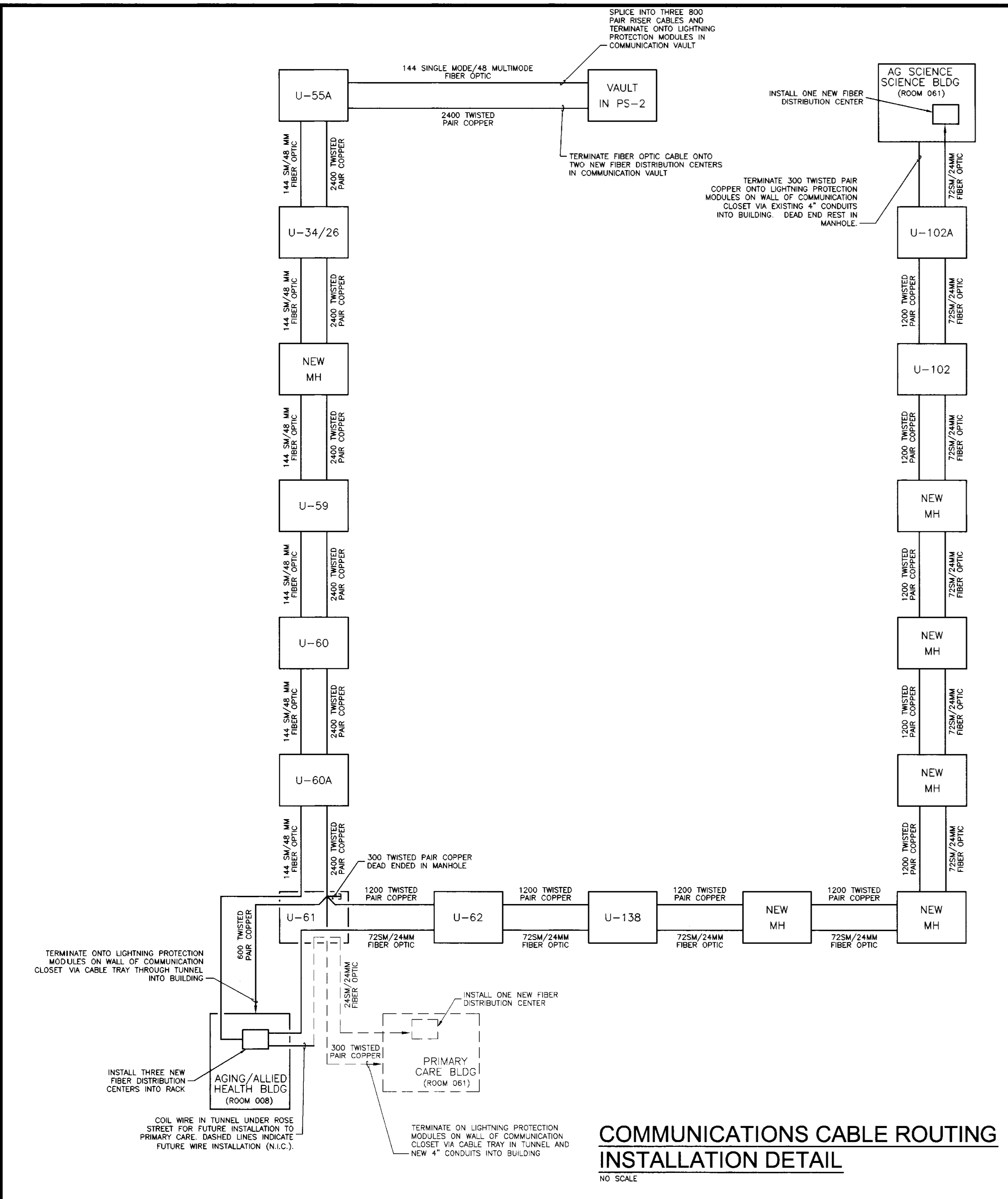
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 DRAWN BY: W.P.W.  
 CHECKED BY: G.G.C.  
 REVISIONS: #  
 DATE

**ELECTRICAL SITE PLAN - SECTION "C"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

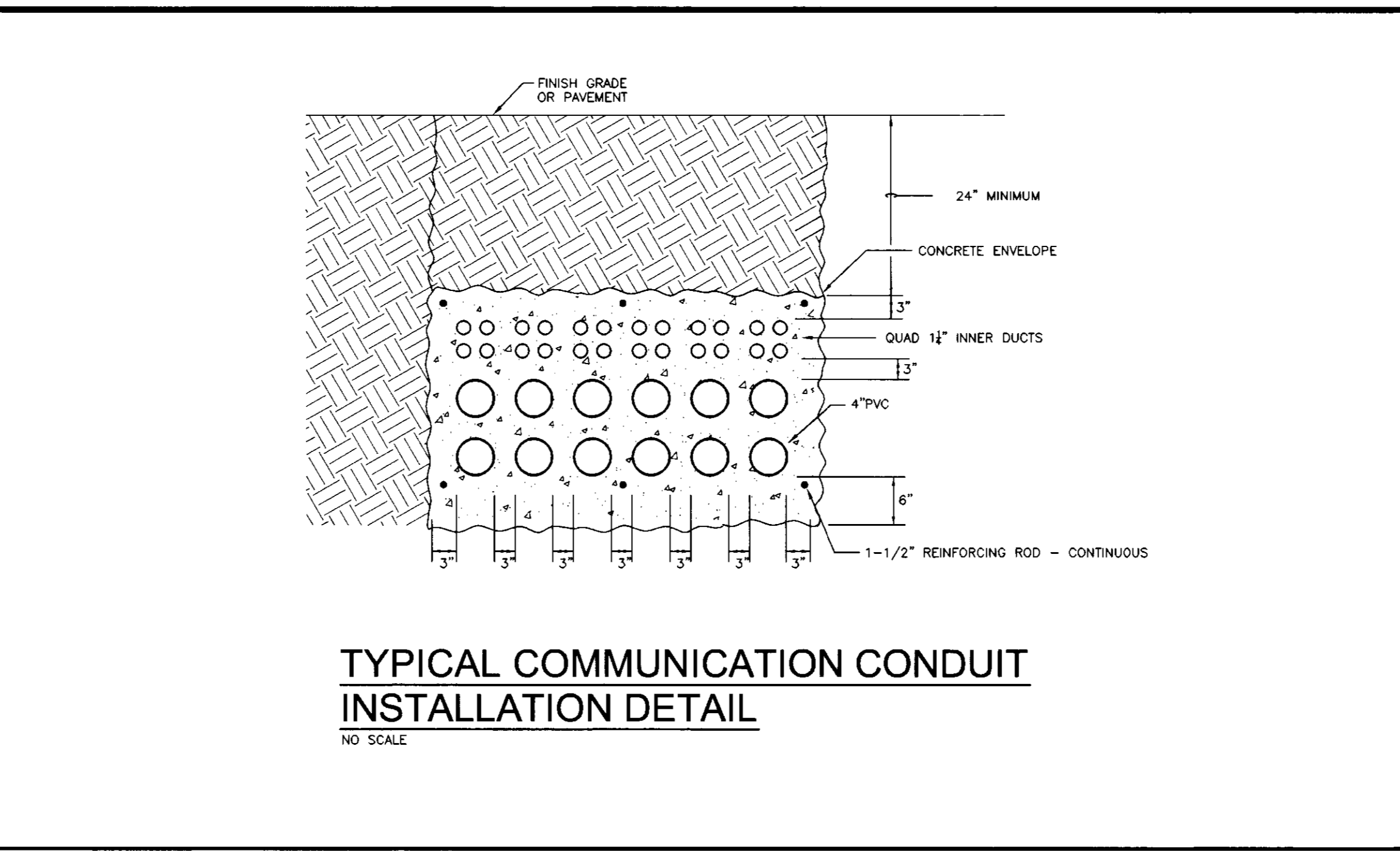
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 DATE: DECEMBER 2000  
 DRAWN BY: W.P.W.  
 CHECKED BY: G.G.C.  
 REVISIONS: #  
 DATE

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 PROJECT NUMBER Cab #  
 99024.02

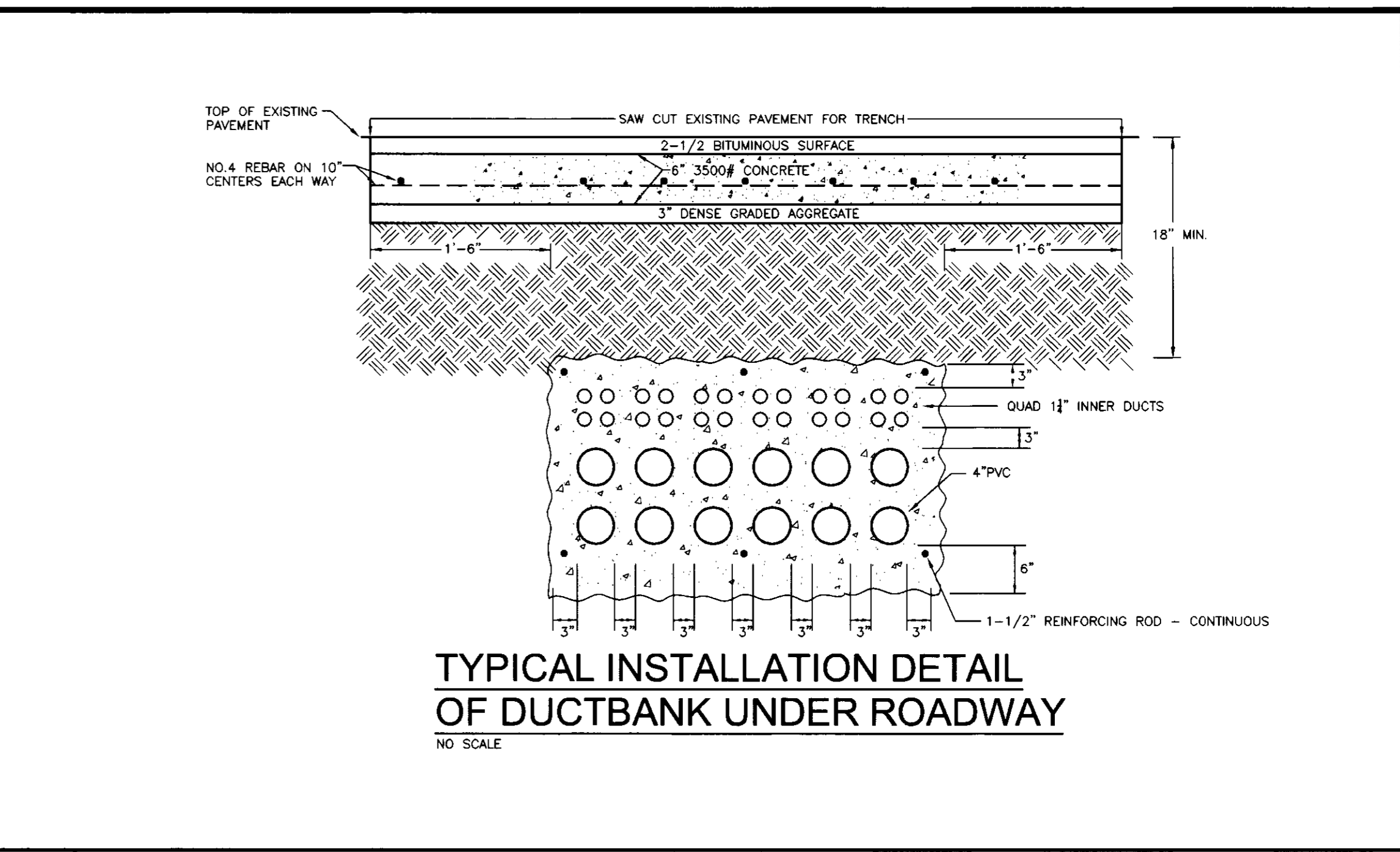
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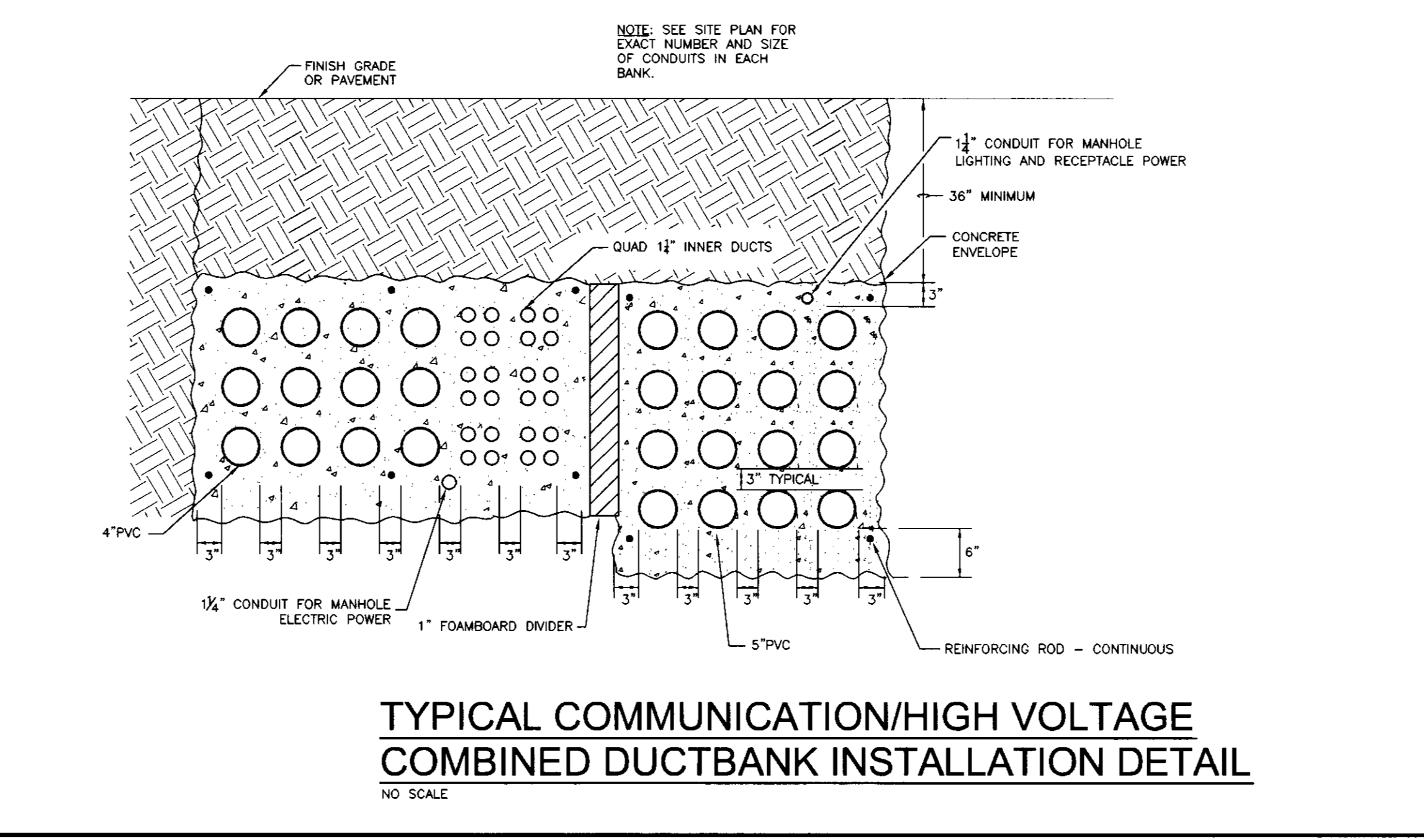
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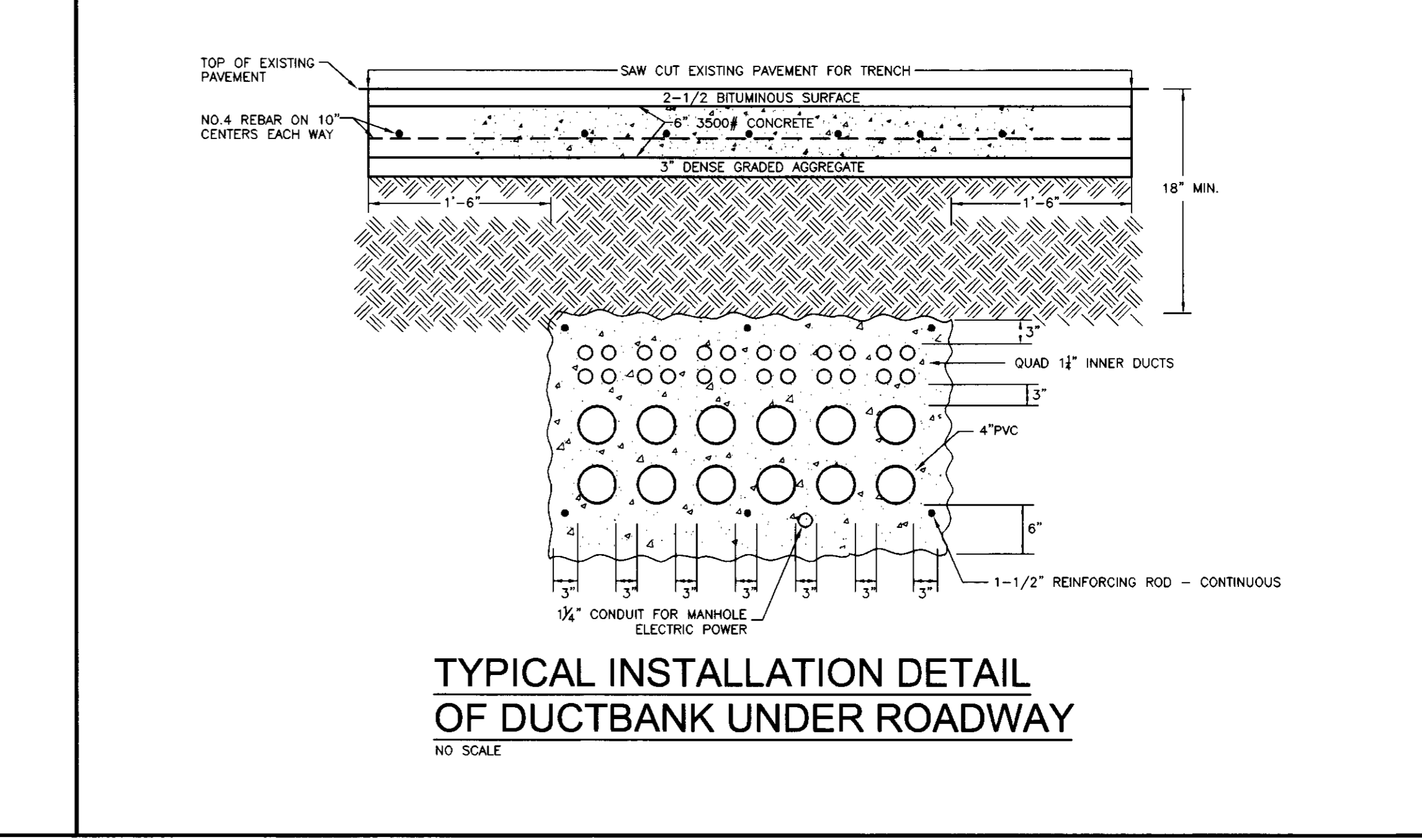
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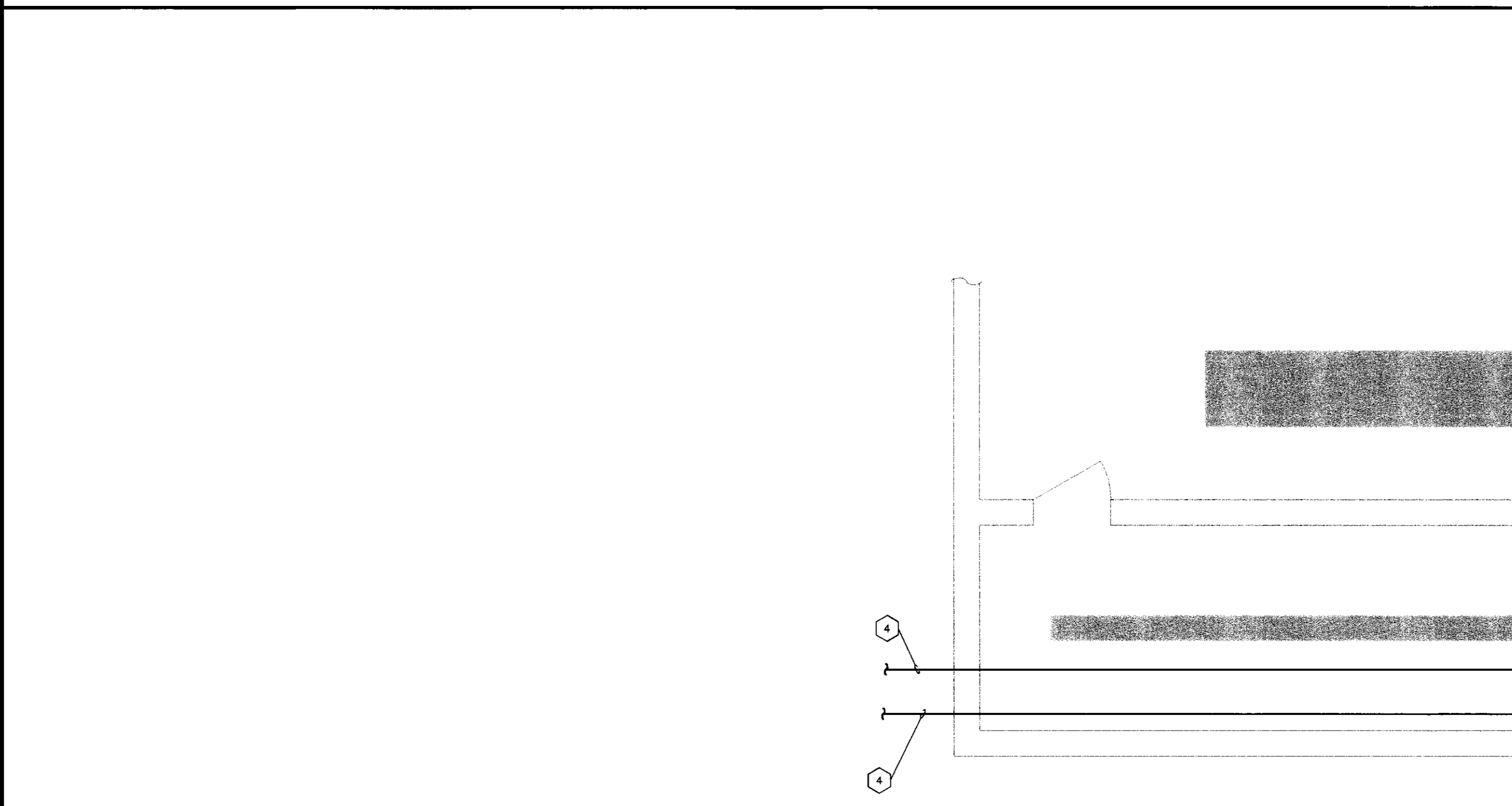
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OF DUCTBANK UNDER ROADWAY**  
NO SCALE



**TYPICAL COMMUNICATION/HIGH VOLTAGE  
COMBINED DUCTBANK INSTALLATION DETAIL**  
NO SCALE



**TYPICAL INSTALLATION DETAIL  
OF DUCTBANK UNDER ROADWAY**  
NO SCALE



**COMMUNICATION VAULT  
ENTRANCE DETAIL**  
SCALE: 1/4" = 1'-0"

- CODED NOTES:**
- 1 RUN THROUGH EXISTING WALL PENETRATIONS.
  - 2 THREE 800 PAIR SHIELDED RISER CABLES.
  - 3 TERMINATE INTO 24 100 PAIR PROTECTOR BLOCKS WITH PROTECTION MODULES.
  - 4 SEE SHEET 9.3.0 FOR CONTINUATION TO MANHOLE U-55A.
  - 5 144 STRAND SINGLE MODE AND 48 STRAND MULTI-MODE FIBER OPTIC CABLE.
  - 6 INSTALL TWO NEW FIBER DISTRIBUTION CENTERS IN EXISTING RACK. COORDINATE LOCATION WITH OWNER.
  - 7 TERMINATE FIBER OPTIC CABLE IN NEW FIBER DISTRIBUTION CENTER.

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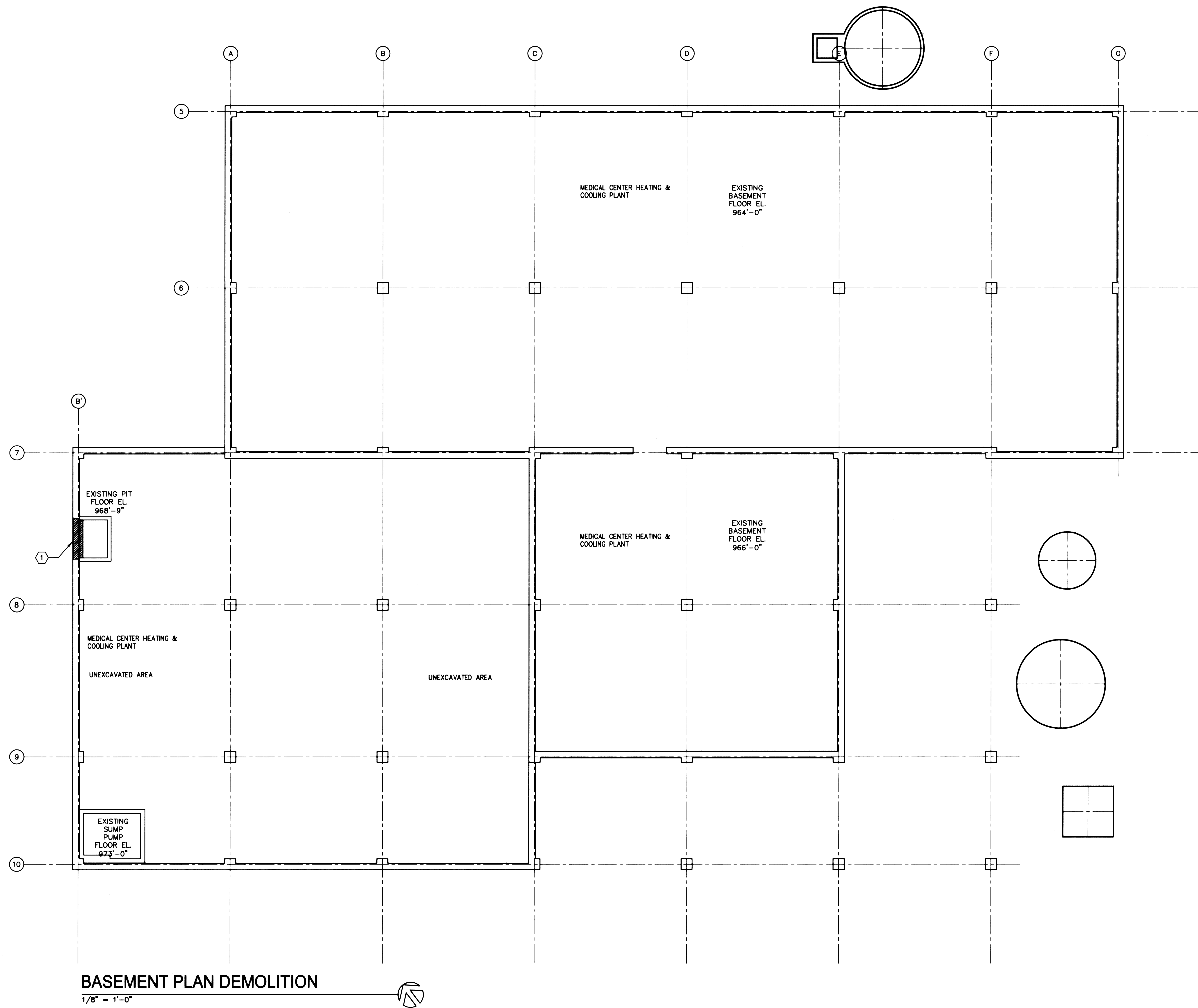
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**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE DECEMBER 2000  
DRAWN BY: WFW  
CHECKED BY: GGC  
REVISED:  
DATE

SHEET NUMBER  
**9.3.4**

PROJECT NUMBER  
99024.02

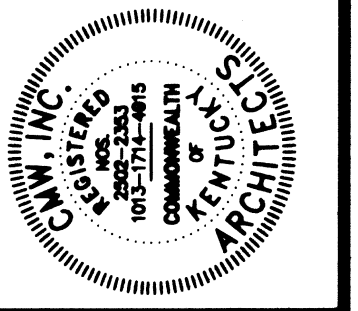
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**SHEET NOTES**

① CONCRETE WALL: REMOVE SECTION OF WALL. SUPPORT REMAINING WALL AS REQUIRED.

**CMW**  
CHRISMAN · MILLER · WOODFORD · INC.  
ARCHITECTS · ENGINEERS · INTERIORS · LANDSCAPE ARCHITECTS  
174 C-2



DESIGNED BY: M. W. WOODFORD  
CHECKED BY: B. D. BROWN  
DATE: 11/20/2003

**BASEMENT PLAN DEMOLITION**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

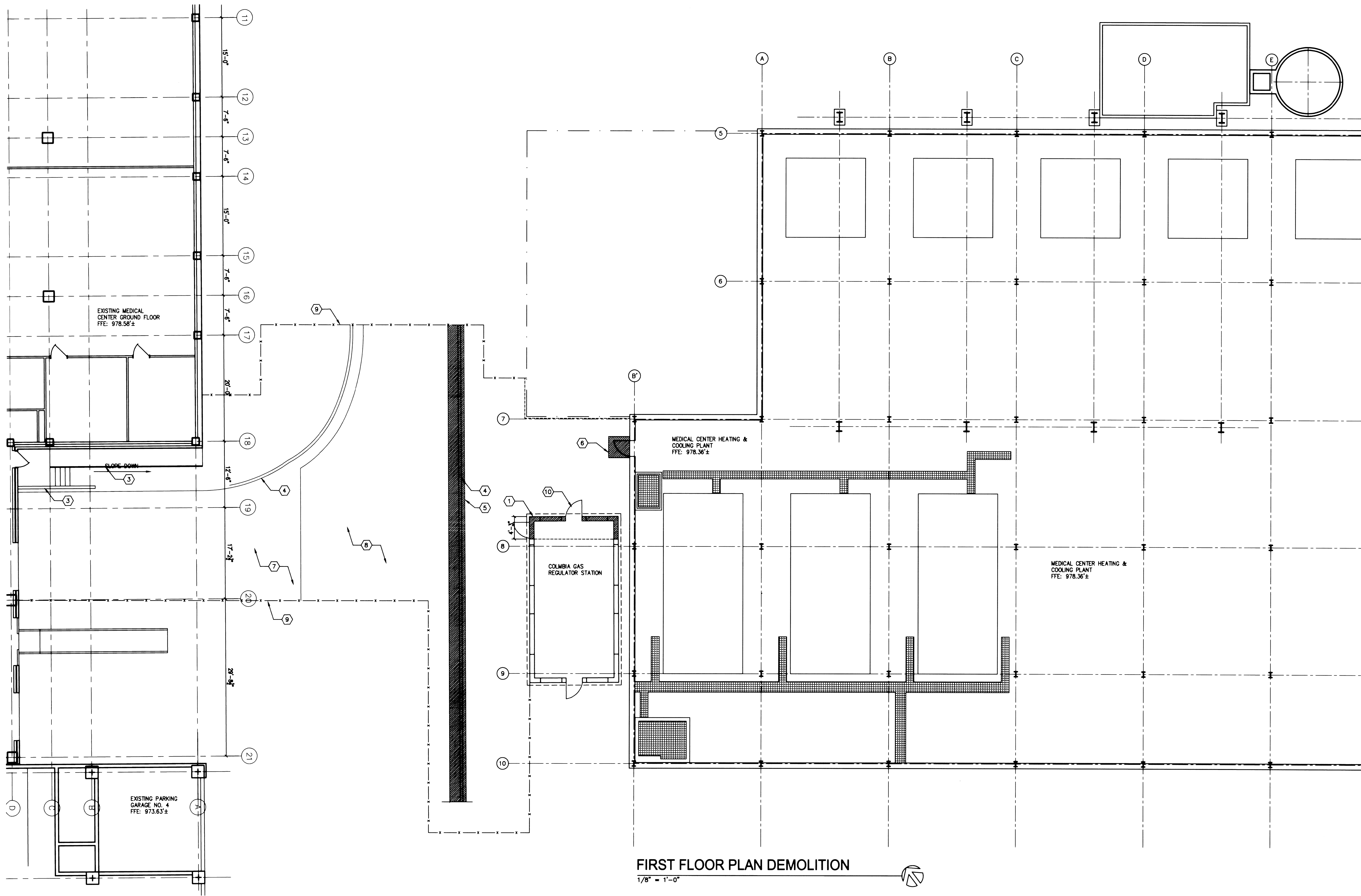
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PROJECT NUMBER  
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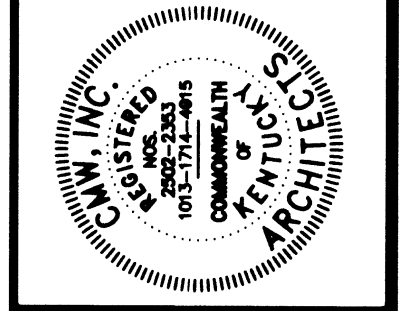
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CMW, INC.





**FIRST FLOOR PLAN DEMOLITION**  
 1/8" = 1'-0"

- SHEET NOTES**
- 1 GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
  - 2 MASONRY WALL: REMOVAL AND REPLACEMENT OF MASONRY WALL SHALL BE BY CHILLER CONTRACTOR, N.I.C.
  - 3 REMOVE CONCRETE WALL, STAIR AND RAMP.
  - 4 REMOVE CONCRETE CURB.
  - 5 REMOVE KEYSTONE RETAINING WALL, AND STORE FOR REINSTALLATION.
  - 6 REMOVE CONCRETE PAD.
  - 7 REMOVE CONCRETE PAVEMENT.
  - 8 REMOVE ASPHALT PAVEMENT.
  - 9 CONSTRUCTION LIMITS: TEMPORARY CHAIN LINK FENCE, 6'-0" HIGH.
  - 10 REMOVE DOOR AND FRAME FOR REUSE. REFER TO NEW WORK PLAN FOR LOCATION.



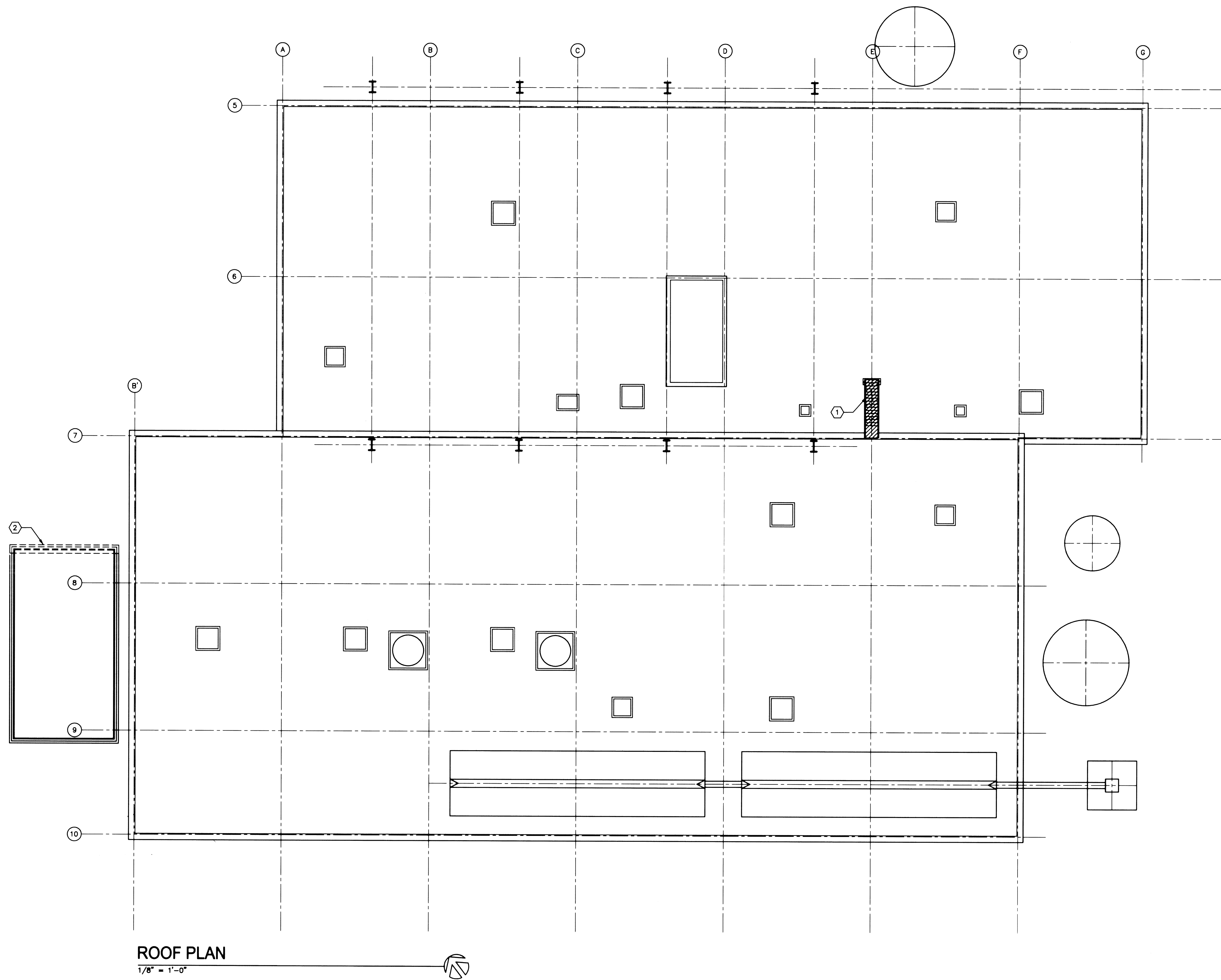
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 TO ORIGINAL DIMENSIONS  
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**FIRST FLOOR PLAN DEMOLITION**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

RECORD DRAWINGS DATE 11/20/2003  
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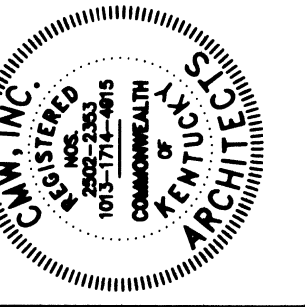
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CHECKED BY:	B. D.
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SHEET NUMBER	
<b>12.2</b>	
PROJECT NUMBER	
99024.02	



ROOF PLAN  
1/8" = 1'-0"

SHEET NOTES

- ① EXISTING LADDER SHALL BE RELOCATED. REFER TO A/3.2.
- ② GAS HOUSE ROOF SHALL BE CUT BACK. REFER TO B/3.8.



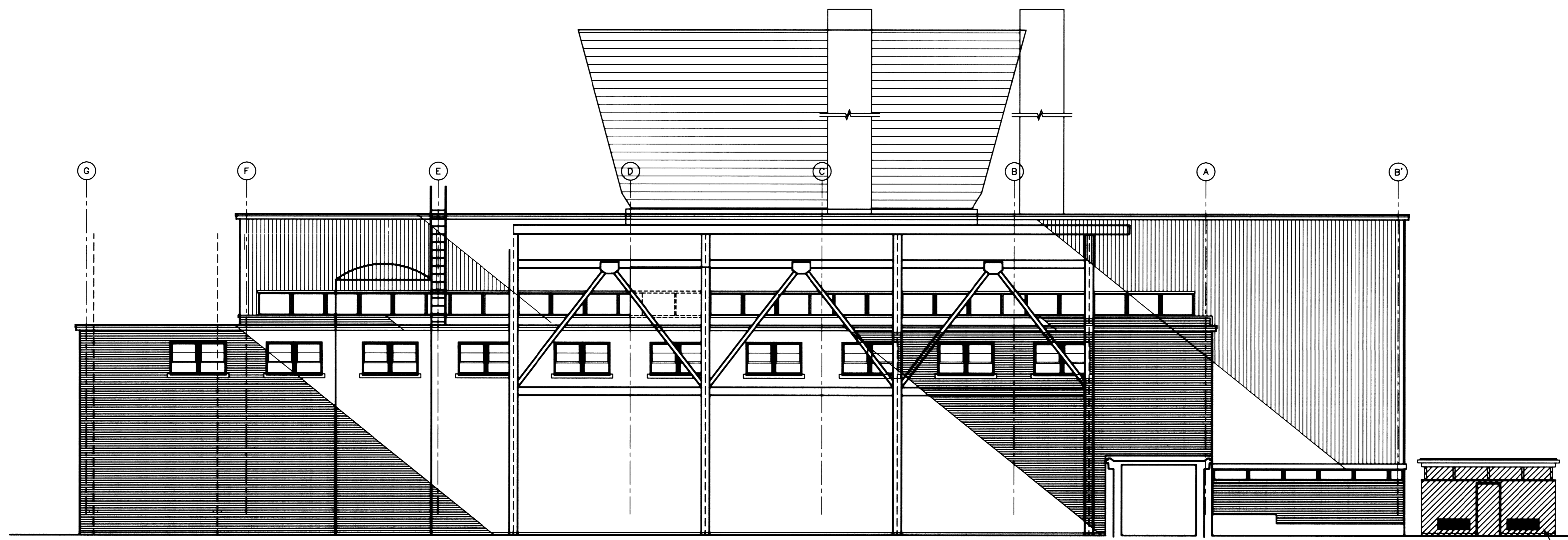
PERMITS TO MAKE BY  
DESIGN DOCUMENTS OR  
TO OBTAIN QUANTITIES  
AND ALL RESPONSIBILITY SHALL BE  
THE ARCHITECT'S. THE ARCHITECT  
SHALL BE RESPONSIBLE FOR THE  
ACCURACY OF THE INFORMATION  
PROVIDED TO THE CONTRACTOR.  
NO CONTRACTOR SHALL BE HELD  
RESPONSIBLE FOR ANY ERRORS OR  
OMISSIONS.

**ROOF PLAN DEMOLITION**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: M.W.  
CHECKED BY: B.D.  
REVISED:  
DATE 1.  
2.  
3.  
4.

SHEET NUMBER  
**12.3**  
PROJECT NUMBER  
99024.02

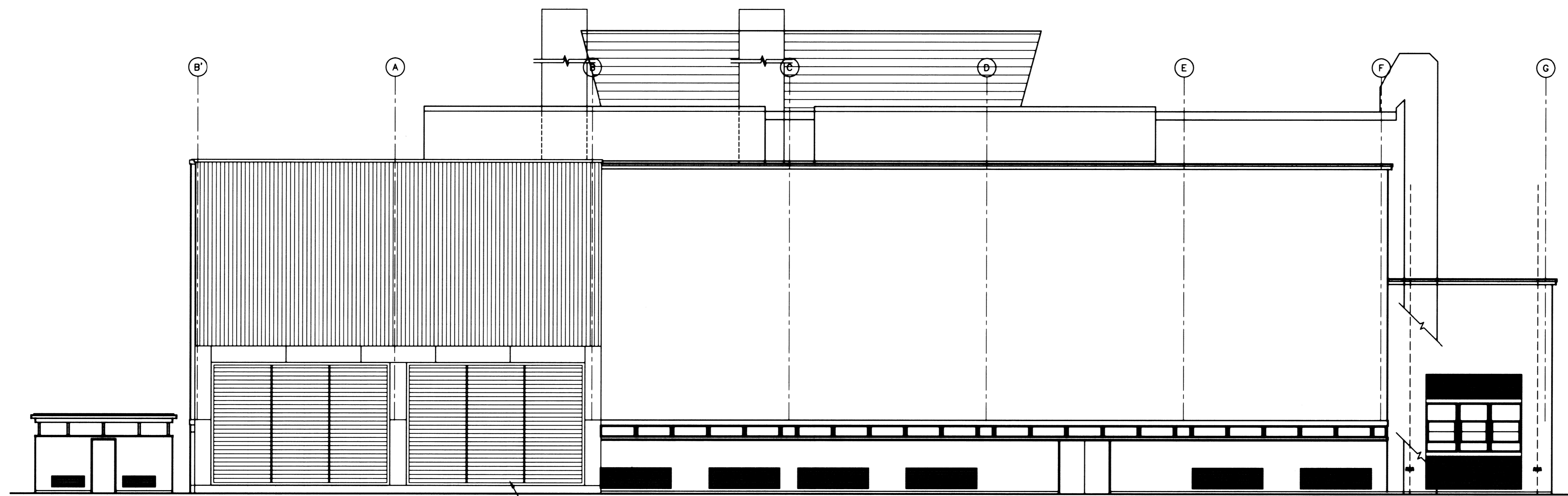
RECORD DRAWINGS DATE 11/20/2003  
These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Architect will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
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DEMO NORTH ELEVATION

1/8" = 1'-0"

A  
12.4



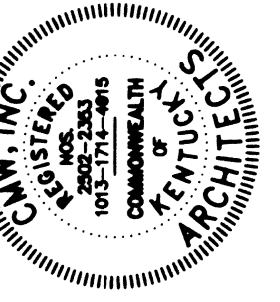
DEMO SOUTH ELEVATION

1/8" = 1'-0"

B  
12.4

SHEET NOTES

- ① GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
- ② MASONRY WALL REMOVAL AND REPLACEMENT OF MASONRY WALL SHALL BE BY CHILLER CONTRACTOR, N.I.C.
- ③ COOLING PLANT EXPANSION N.I.C.



FAILURE TO ADHERE TO THESE DOCUMENTS OR TO OBTAIN CLEARANCE FOR ALL REVISIONS SHALL BE AT THE USER'S RISK. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THESE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

**DEMOLITION ELEVATIONS**  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER 2000  
DRAWN BY: M.W.  
CHECKED BY: S.D.  
REVISED:  
DATE 1  
2  
4

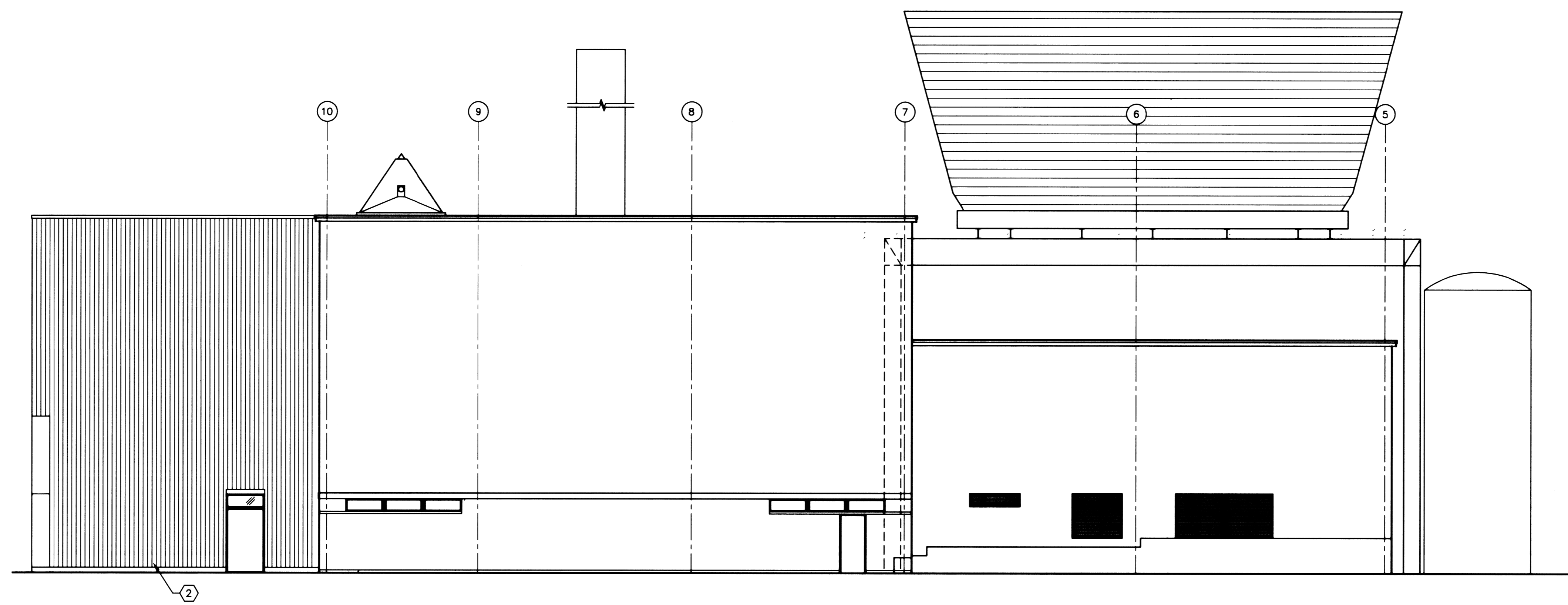
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**12.4**  
PROJECT NUMBER  
99024.02

MAR 01 2004

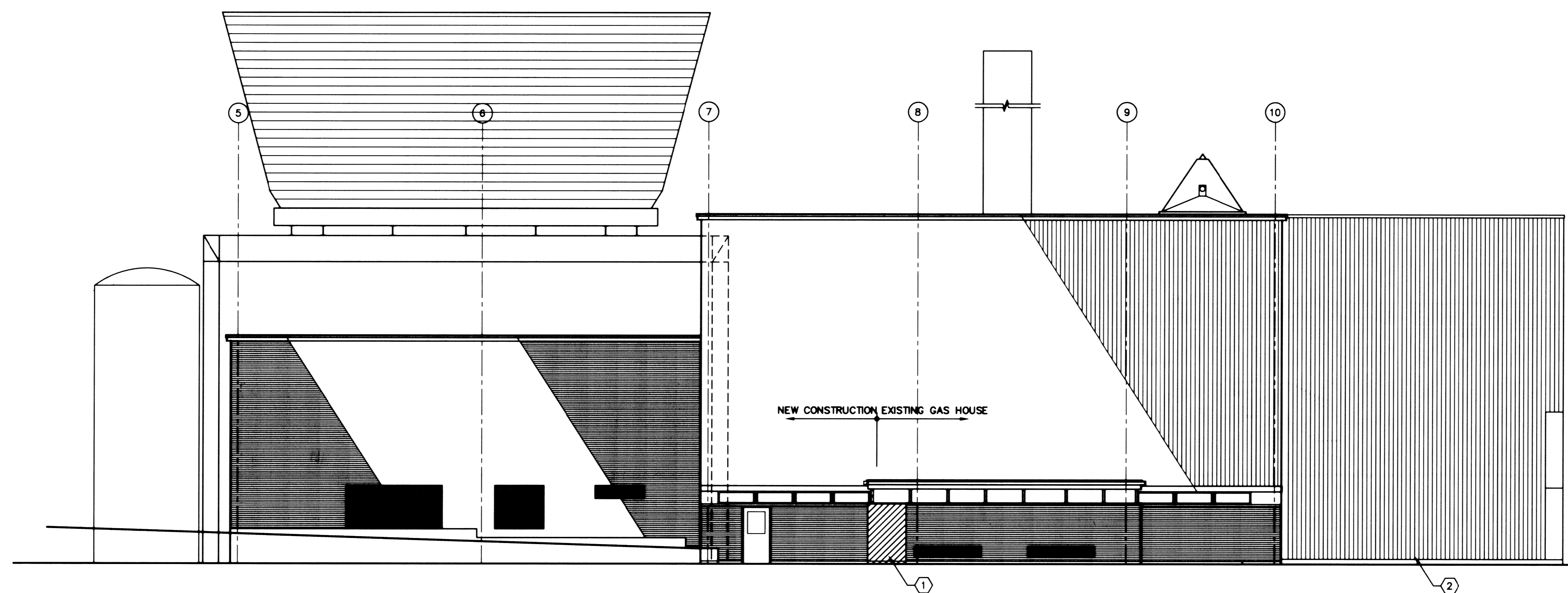
RECORD DRAWINGS DATE 11/20/2003

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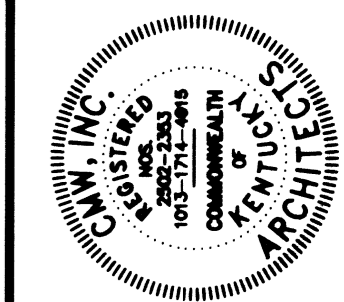
DEMO EAST ELEVATION  
1/8" = 1'-0" A 12.5



DEMO WEST ELEVATION  
1/8" = 1'-0" B 12.5

SHEET NOTES

- ① GAS HOUSE WALLS SHALL BE REMOVED WHERE INDICATED. GAS HOUSE CONCRETE ROOF SHALL BE SUPPORTED AS REQUIRED.
- ② COOLING PLANT EXPANSION N.I.C.



FAILURE TO MAKE BY DESIGN DOCUMENTS OR TO OBTAIN PERMITS FOR ALL WORK SHALL BE THE RESPONSIBILITY OF THE USER. THE ARCHITECT ASSUMES NO LIABILITY FOR CONSTRUCTION DEFECTS OR FOR THE ACCURACY OF THE INFORMATION PROVIDED TO THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED HEREON.

NOT FOR CONSTRUCTION

DEMOLITION ELEVATIONS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE

DATE: DECEMBER, 2000  
DRAWN BY: BJ  
CHECKED BY: B.D.  
REVISED:  
DATE: 1  
2  
3  
4

MAR 01 2004  
CONTRACT

SHEET NUMBER

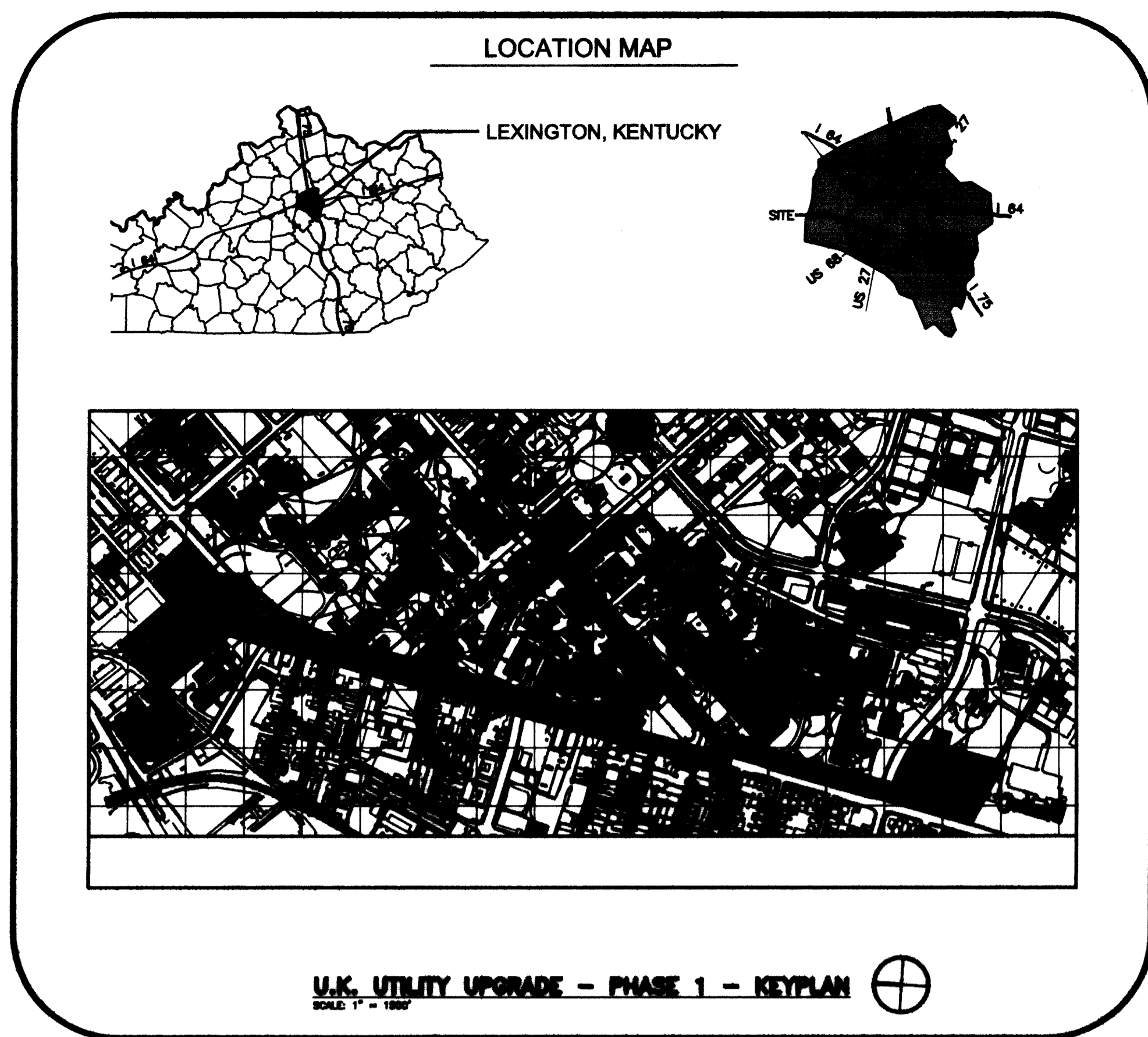
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PROJECT NUMBER  
99024.02

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



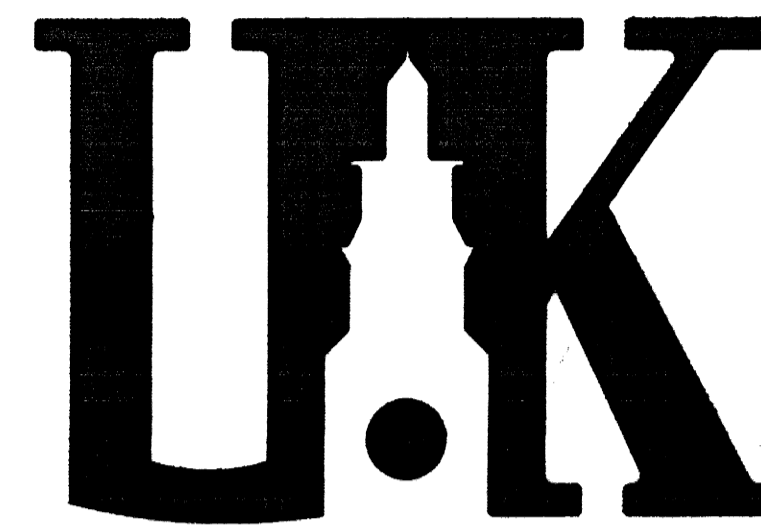
# UTILITY UPGRADE - PHASE 1

UNIVERSITY OF KENTUCKY

LEXINGTON,

KENTUCKY

UK PROJECT NO. 1949.0



## CHRISMAN - MILLER - WOODFORD

ARCHITECTURE ENGINEERING LANDSCAPE ARCHITECTURE INTERIOR DESIGN  
400 E. VINE STREET, SUITE 400 LEXINGTON, KENTUCKY 40507

STAGGS & FISHER CONSULTING ENGINEERS, INC.

MECHANICAL AND ELECTRICAL

BROWN & KUBICAN, PSC

STRUCTURAL

### CONSTRUCTION DOCUMENT SUBMITTAL

**CMW**

CHENAULT WOODFORD  
JACK H. BALLARD II  
ALAN B. SULLIVAN BRIAN  
C. HILL  
H. ROYCE BOURNE  
BILL PICKERING

A.I.A.  
A.I.A.  
A.I.A.  
A.S.L.A.  
A.I.A.  
A.I.A.  
A.I.A.

CMW	ARCHITECTURE STRUCTURAL CIVIL LANDSCAPE ARCHITECTURE INTERIOR DESIGN
STAGGS & FISHER CONSULTING ENGINEERS, INC.	MECHANICAL ELECTRICAL
BROWN & KUBICAN, PSC	STRUCTURAL

SHEET INDEX		12/14/00
0.0 PROJECT STAGING PLAN	8.0.0 LEGEND/KEY PLAN	✓ 9.2.0 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "A"
0.1 PROJECT STAGING PLAN	8.1.0 COOLING PLANT #3 - H.V.A.C. DEMOLITION - BASEMENT PLAN	9.2.1 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "B"
0.2 PROJECT STAGING PLAN	8.1.1 COOLING PLANT #3 - H.V.A.C. DEMOLITION - FIRST FLOOR PLAN	9.2.2 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "C"
0.3 PROJECT STAGING PLAN	8.1.2 COOLING PLANT #3 - H.V.A.C. DEMOLITION - ROOF PLAN	9.2.3 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "D"
0.4 PROJECT STAGING PLAN	8.1.3 COOLING PLANT #3 - H.V.A.C. DEMO/NEW WORK - TUNNEL PLAN	9.2.4 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "E"
0.5 PROJECT STAGING PLAN	8.1.4 COOLING PLANT #3 - H.V.A.C. NEW WORK - BASEMENT PLAN	9.2.5 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "F"
0.6 PROJECT STAGING PLAN	8.1.5 COOLING PLANT #3 - H.V.A.C. NEW WORK - FIRST FLOOR PLAN	9.2.6 LIMESTONE - ELECTRICAL SITE PLAN - SECTION "G"
0.7 PROJECT STAGING PLAN	8.1.6 COOLING PLANT #3 - H.V.A.C. NEW WORK - ROOF PLAN	9.2.7 LIMESTONE - ELECTRICAL DETAILS
0.8 PROJECT STAGING PLAN <i>PROJECT STAGING PLAN</i>	8.1.7 COOLING PLANT #3 - H.V.A.C. FLOW DIAGRAM	
0.9 GENERAL	8.6.0 CHANDLER MEDICAL CENTER - H.V.A.C. NEW WORK	✓ 9.3.0 ROSE - ELECTRICAL SITE PLAN - SECTION "A"
1.1 GENERAL NOTES, ABBREVIATIONS, AND LEGENDS	8.6.1 CHANDLER MEDICAL CENTER - H.V.A.C. NEW WORK	✓ 9.3.1 ROSE - ELECTRICAL SITE PLAN - SECTION "B"
	8.7.0 HUGUELET DRIVE - H.V.A.C. NEW WORK - SITE PLAN	✓ 9.3.2 ROSE - ELECTRICAL SITE PLAN - SECTION "C"
	8.7.1 HUGUELET DRIVE - DETAILS	9.3.3 ROSE - ELECTRICAL DETAILS
	8.8.1 H.V.A.C. SECTIONS	9.3.4 ROSE - ELECTRICAL DETAILS
	8.9.1 H.V.A.C. GENERAL DETAILS	9.4.0 DENTAL WING - 12KV CONNECTION
	8.9.2 H.V.A.C. GENERAL DETAILS/SCHEDULES	9.5.0 AGRICULTURAL SCIENCE COMMUNICATION DUCTBANK
	9.0.0 COOLING PLANT #3 - ELECTRICAL SITE PLAN	9.5.1 AGRICULTURAL SCIENCE COMMUNICATION DUCTBANK
		DEMOLITION
	9.1.0 COOLING PLANT #3 - POWER DEMOLITION - BASEMENT PLAN	✓ 12.1 BASEMENT PLAN DEMOLITION
	9.1.1 COOLING PLANT #3 - POWER DEMOLITION - 1ST FLOOR PLAN	✓ 12.2 FIRST FLOOR PLAN DEMOLITION
	9.1.2 COOLING PLANT #3 - POWER NEW WORK - BASEMENT PLAN	✓ 12.3 ROOF PLAN DEMOLITION
	9.1.3 COOLING PLANT #3 - POWER NEW WORK - FIRST FLOOR AREA 1 PLAN	✓ 12.4 DEMOLITION ELEVATIONS
	9.1.4 COOLING PLANT #3 - POWER NEW WORK - FIRST FLOOR AREA 2 PLAN	✓ 12.5 DEMOLITION ELEVATIONS
	9.1.5 COOLING PLANT #3 - POWER NEW WORK - ROOF/MEZZANINE PLAN	
	9.1.6 COOLING PLANT #3 - ELECTRICAL PLAN - RISERS	
	9.1.7 COOLING PLANT #3 - ELECTRICAL PLAN - DETAILS	
	9.1.8 COOLING PLANT #3 - ELECTRICAL DETAILS	

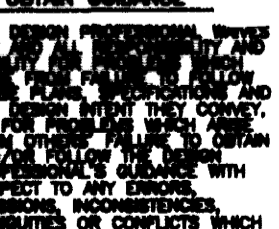
RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.

UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

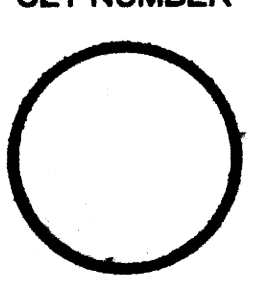
FAILURE TO ADHERE TO THESE DOCUMENTS OR TO OBTAIN GUIDANCE FROM THE ARCHITECT OR ENGINEER OF RECORD MAY BE CAUSAL IN CONNECTION WITH ANY DAMAGE OR INJURY WHICH MAY BE SUSTAINED.

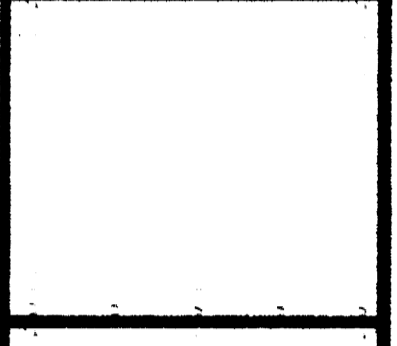


PROJECT NUMBER  
99024.02

DATE  
DECEMBER, 2000

SET NUMBER



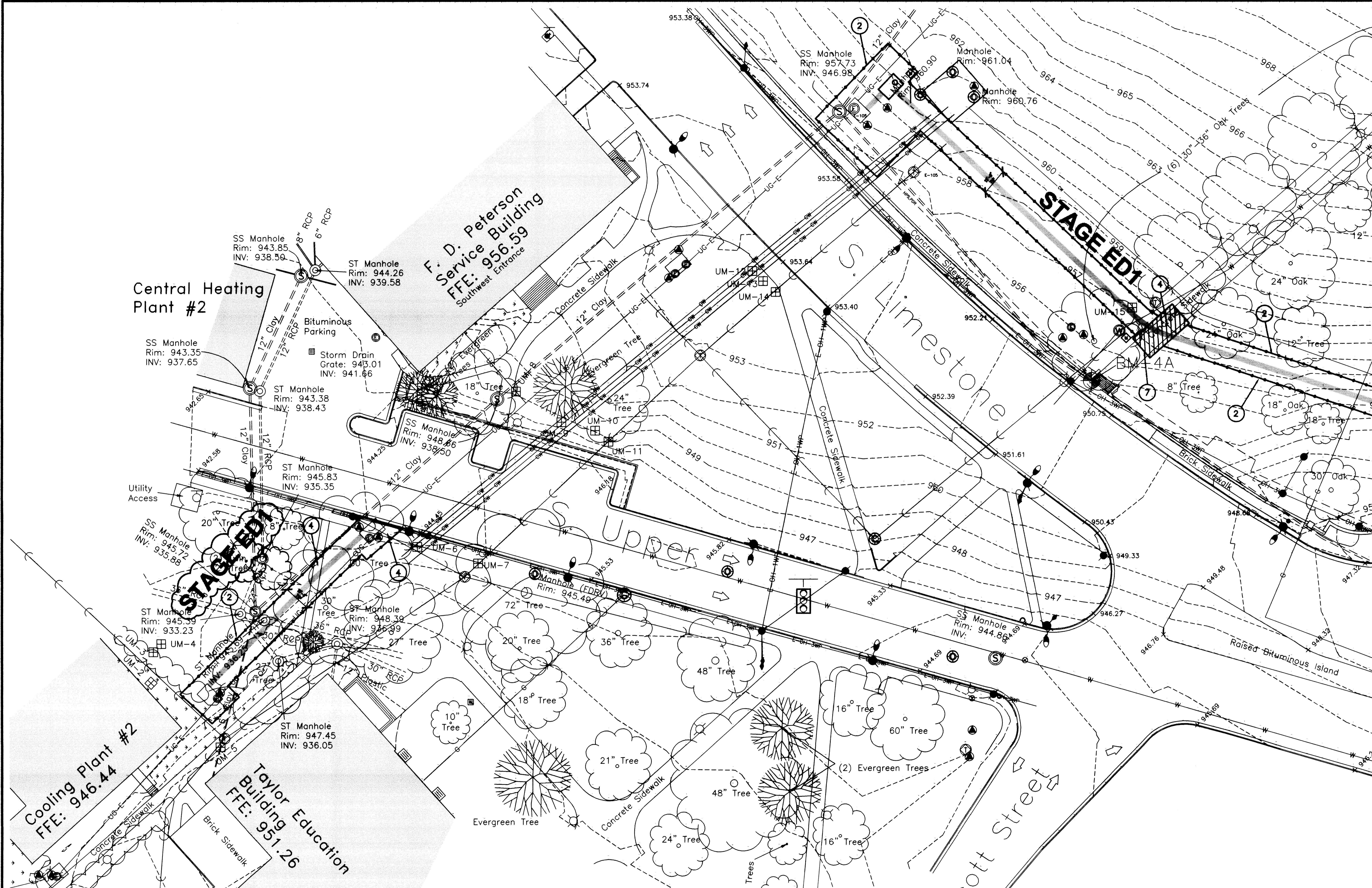


**PROJECT STAGING PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

DATE: DECEMBER 2003  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISIONS:  
 DATE: 12/1/03  
 BY: MAW  
 NO. 1

SHEET NUMBER  
**0.0**  
 PROJECT NUMBER  
 99024.02

RECORD DRAWINGS DATE 11/20/2003  
 These record drawings have been prepared, in part, on the basis of information compiled and furnished by others. The Architect will not be responsible for any errors or omissions which have been incorporated into this document as a result.  
 CMW, INC.  
 TRUE NORTH  
 SCALE: 1" = 20'  
 0' 4' 20' 40' 80'



**GENERAL NOTES**

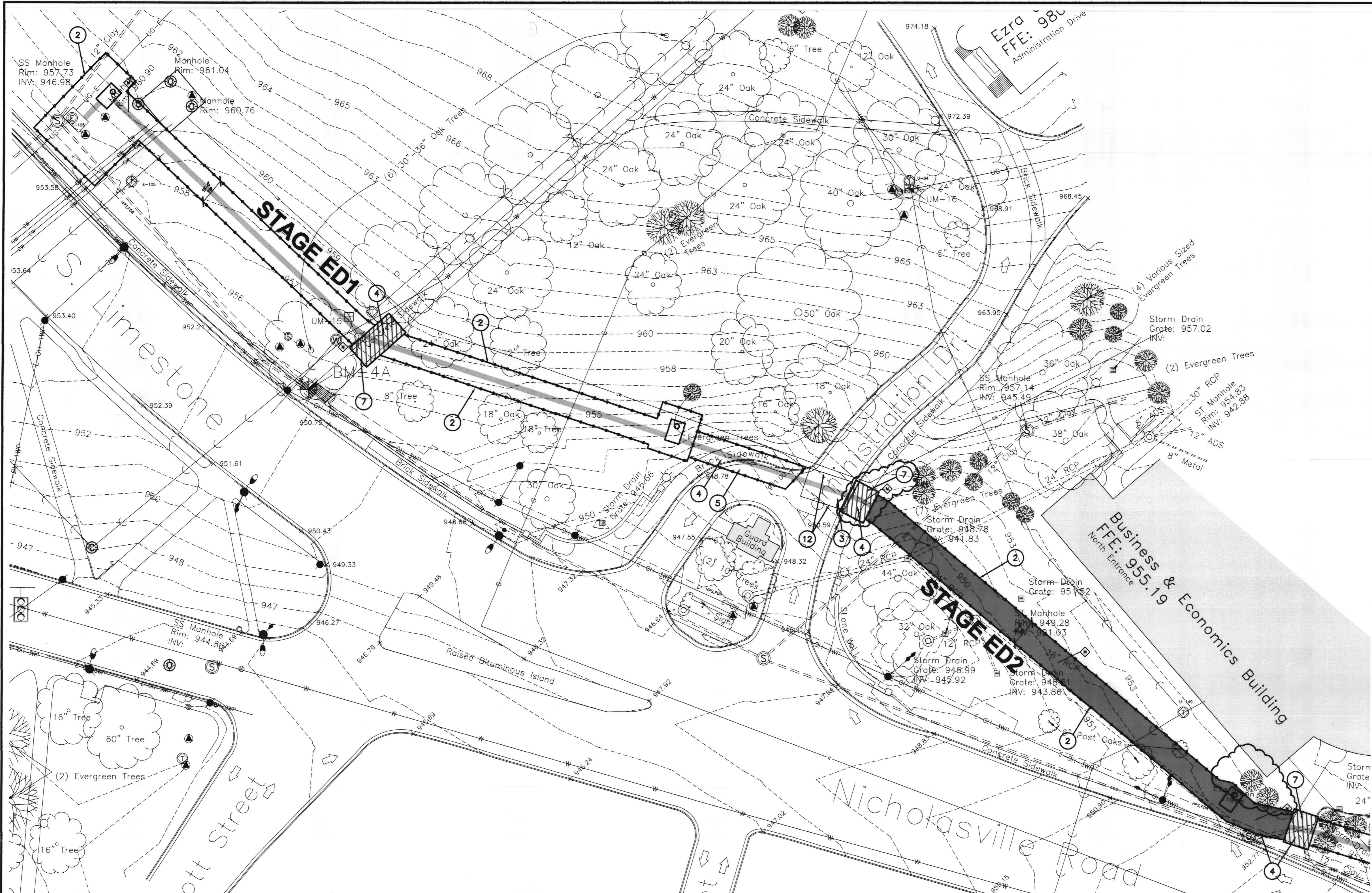
- 1. DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.
- 2. STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.
- 3. DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.
- 4. REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.
- 5. MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.
- 6. THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.
- 7. ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION, MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.  
 STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE.
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SHEET OF PREPARED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL TEMPORARY CONCRETE SIDEWALKS RAMP IN CROSS.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAND CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "GD" REFERS TO COMMUNICATION DUCTBANK.

DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.

REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.

ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION, MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

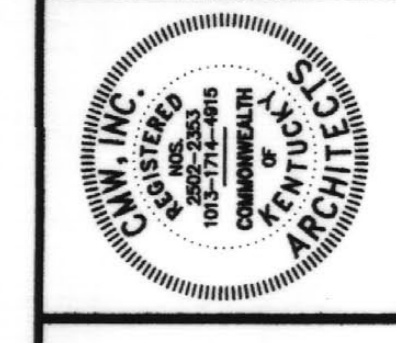
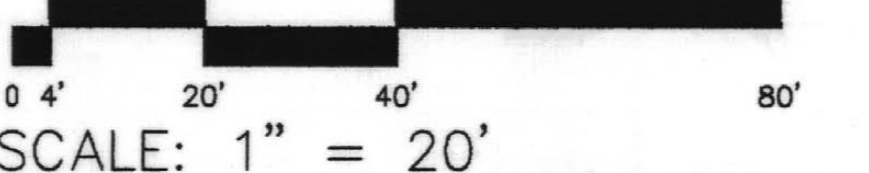
1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
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4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THIS SET OF PLANS TO A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL PERMANENT CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURBS AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED2 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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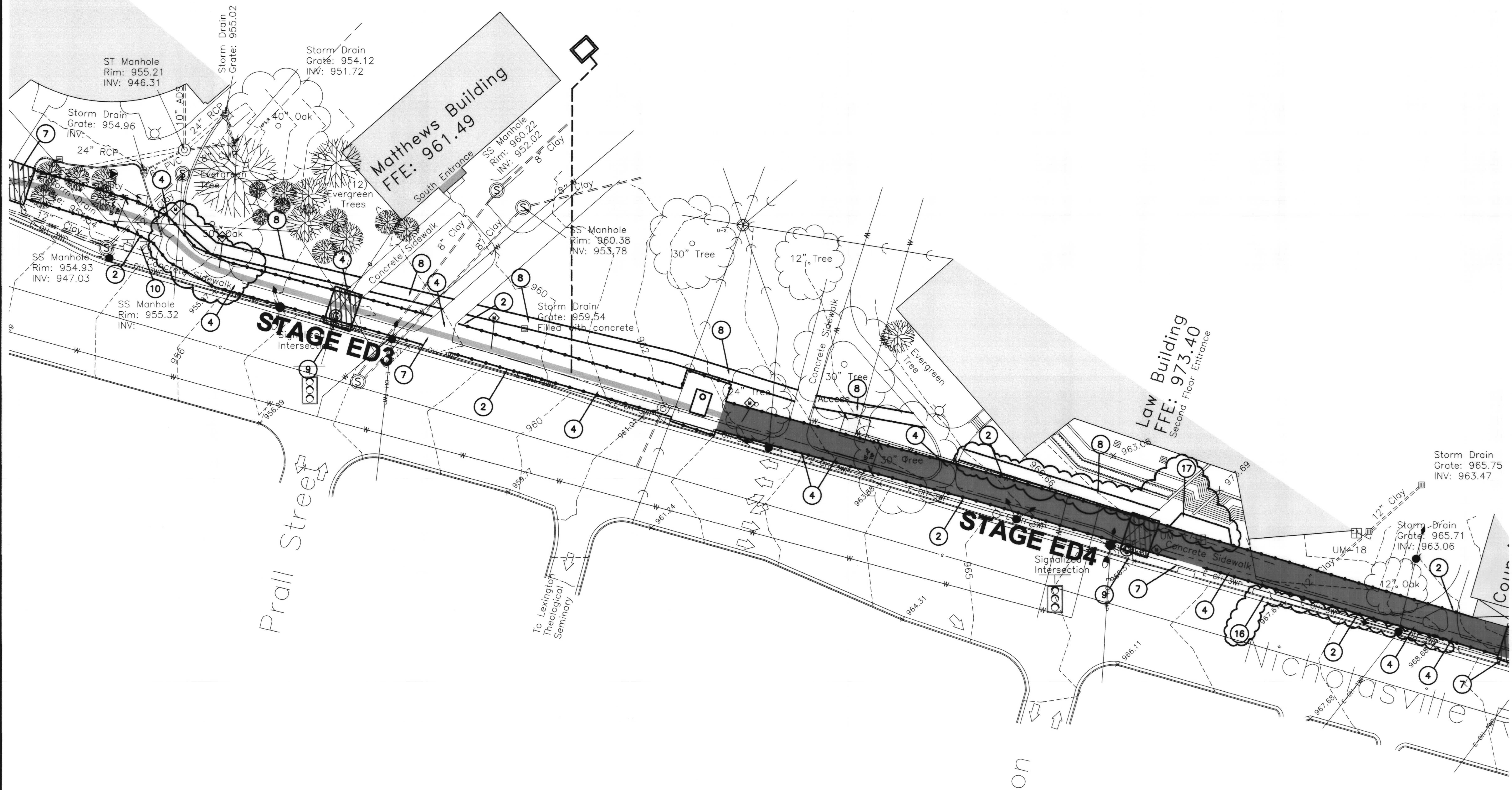
CMW, INC.



**PROJECT STAGING PLAN**  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHEET PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISED:  
 DATE 1.  
 2.  
 3.  
 4.

SHEET NUMBER  
**0.1**  
 PROJECT NUM  
 99024.02  
 174 C-1 25-556



**GENERAL NOTES**

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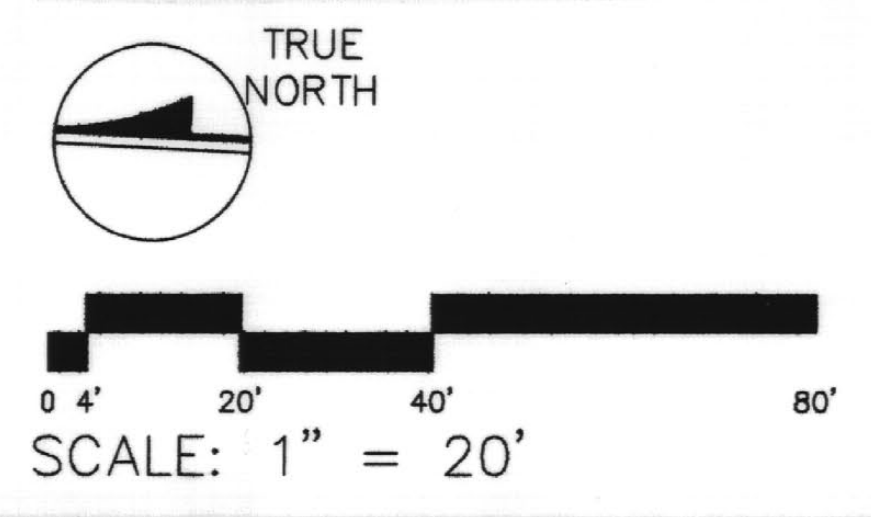
**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
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6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE OSHA BY A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REINFORCED CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003  
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 CMW, INC.

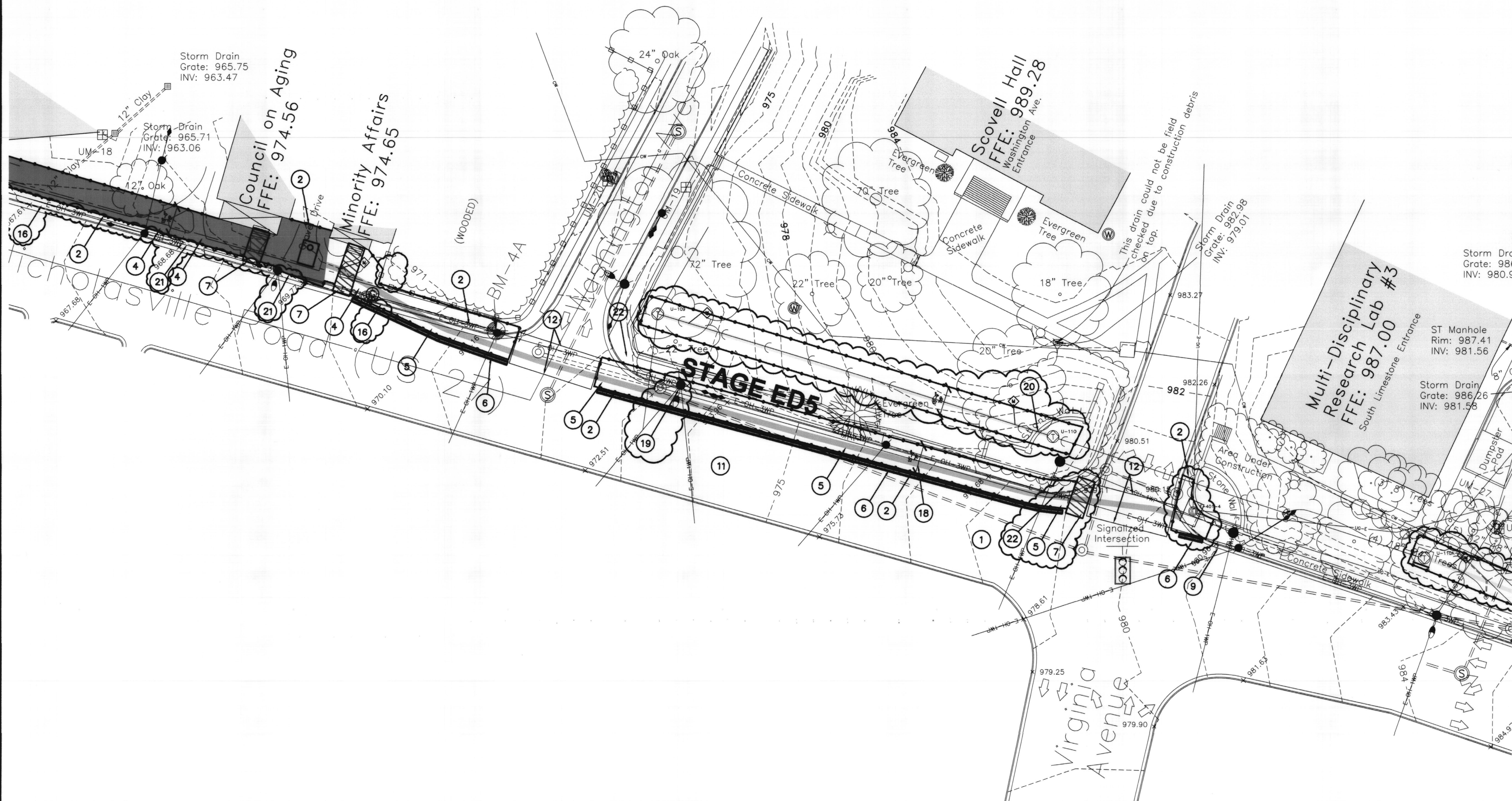


**PROJECT STAGING PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISION: 1  
 DATE: 11/20/03

SHEET NUMBER: **0.2**  
 PROJECT NUMBER: 99024.02  
 C-1 25457





**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.  
 STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.  
 DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.  
 REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.  
 MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.  
 THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.  
 ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.  
 STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

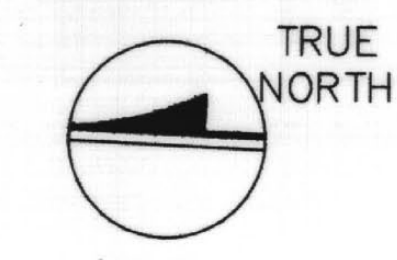
**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE.
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE PROPOSED CONSTRUCTION PLAN TO THE OWNER.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL PERMANENT CONCRETE ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE PROPOSED CONSTRUCTION PLAN TO THE OWNER.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

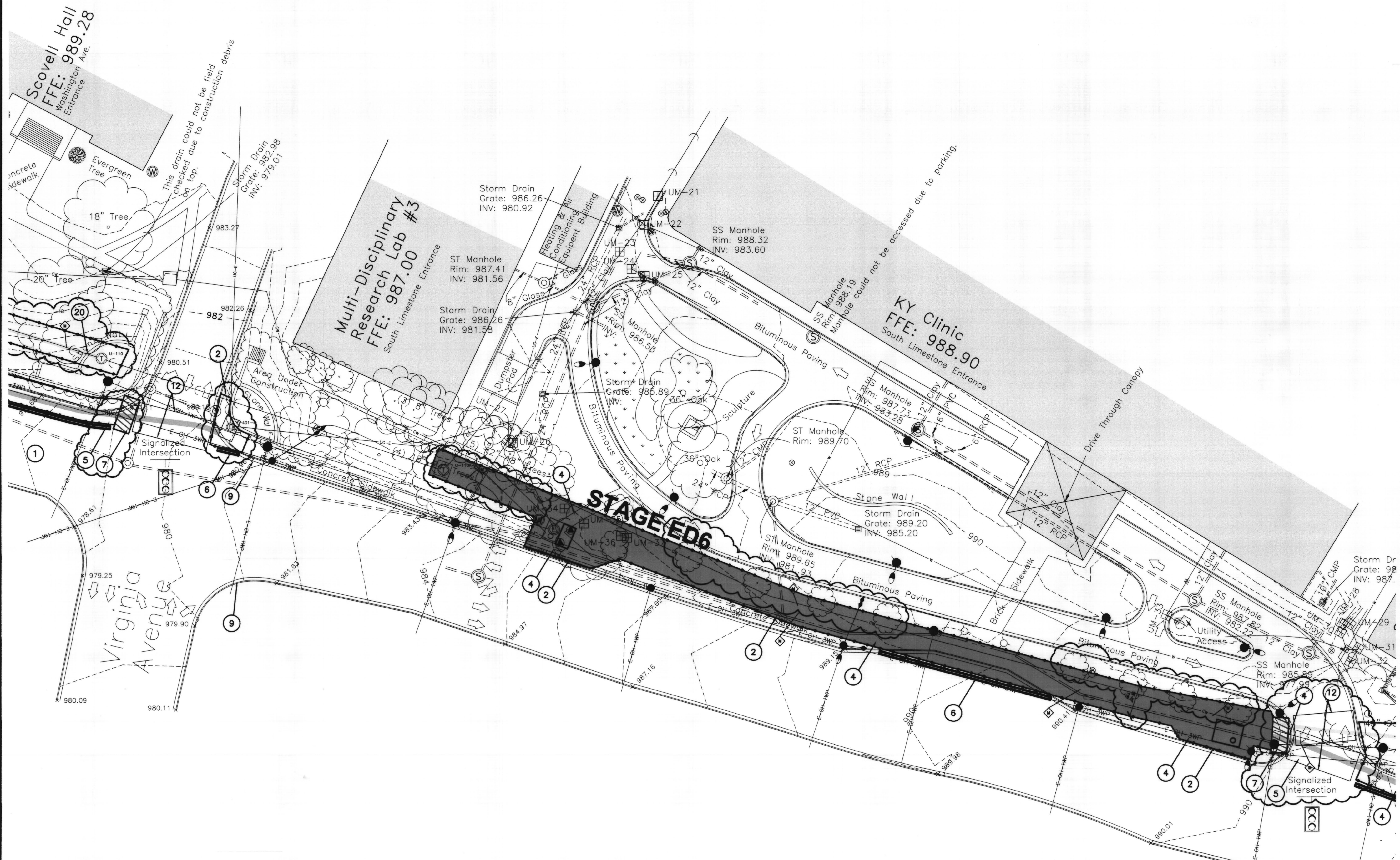
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 CMW, INC.



SCALE: 1" = 20'

**PROJECT STAGING PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER 2000  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 DATE: 1-2-03  
 SHEET NUMBER  
**0.3**  
 PROJECT NUMBER  
 99024.02  
 C&S # 174 C-1 25-458



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.

DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.

REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.

ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

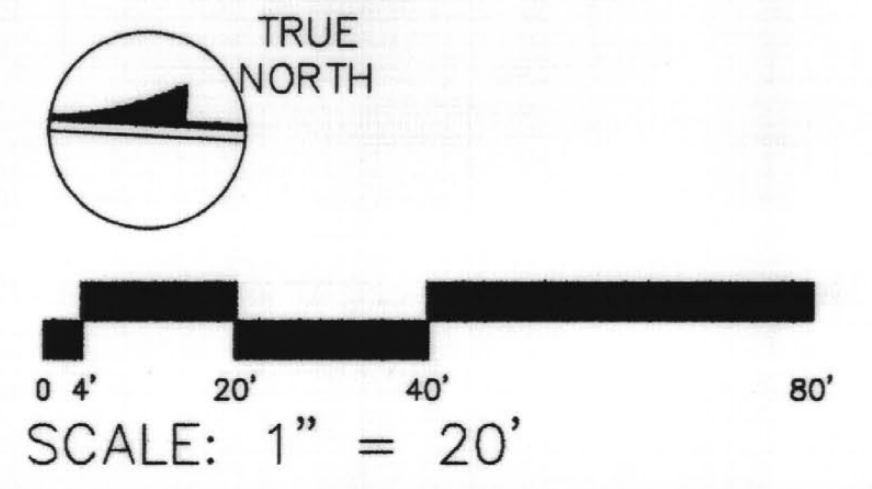
1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SHEET TO REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL TEMPORARY CONCRETE WALL ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS. EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED IN ADDITION TO REPLACING EXISTING SIDEWALK.)
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED6 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CNW, INC.



CHRISMAN MILLER WOODFORD, INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
400 E. ONE STREET  
LEXINGTON, KENTUCKY 40507

REGISTERED PROFESSIONAL ENGINEER  
CIVIL ENGINEERING  
KENTUCKY  
NO. 10000

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PROJECT STAGING PLAN

UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHEET

PROJECT TITLE

DATE

DECEMBER 2000

DRAWN BY

MAV

CHECKED BY

JAB

REVISED

DATE 1, 4, #

SHEET NUMBER

0.4

PROJECT NUMBER

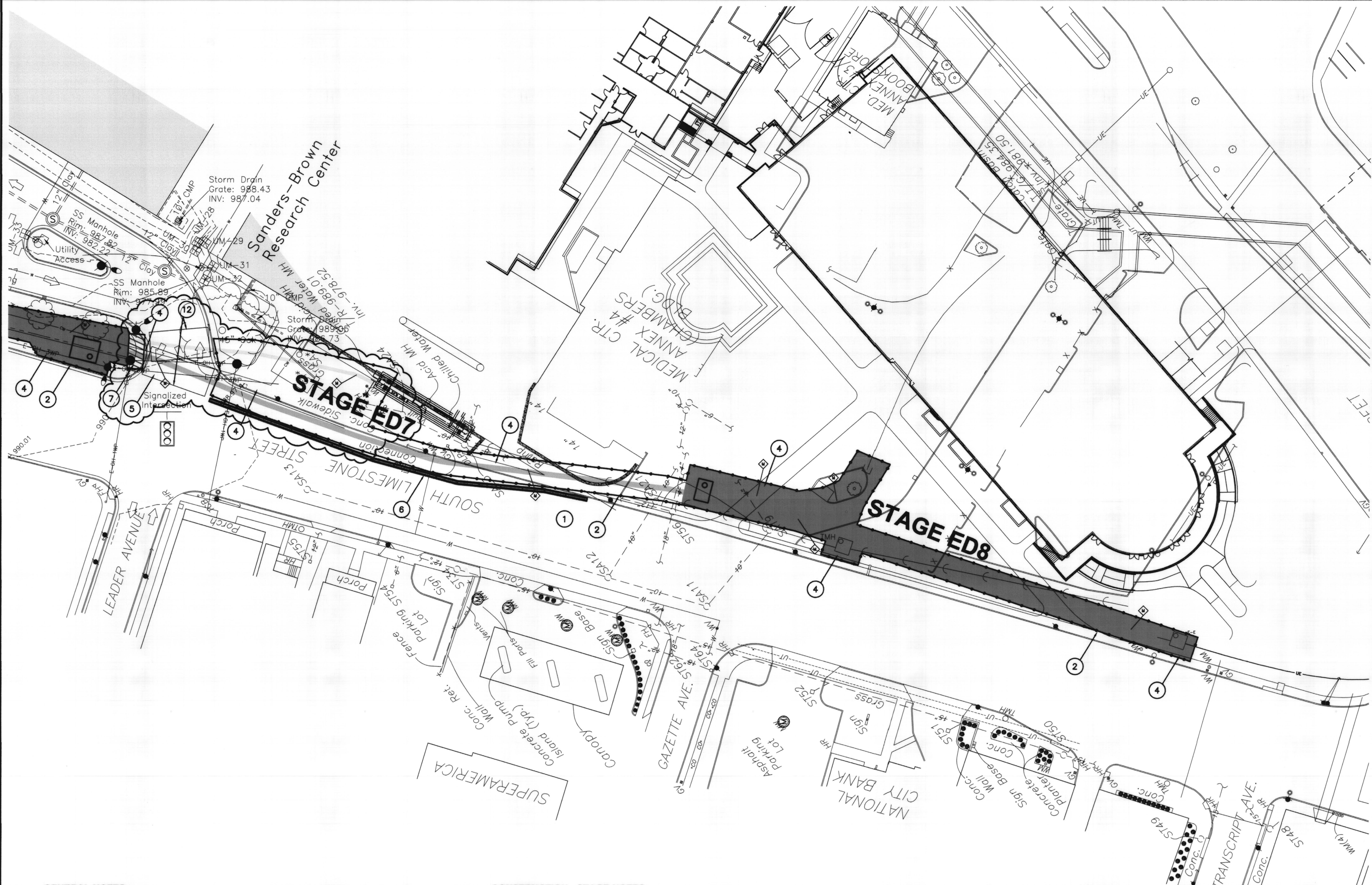
99024.02

CAD #

Docu001

DATE

174 C-1 25459



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.

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CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION. MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SCALE OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REPAIRS TO CONCRETE PAVEMENT IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS. EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED) IN ADDITION TO REPLACING EXISTING SIDEWALK.
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR DUCTBANK.

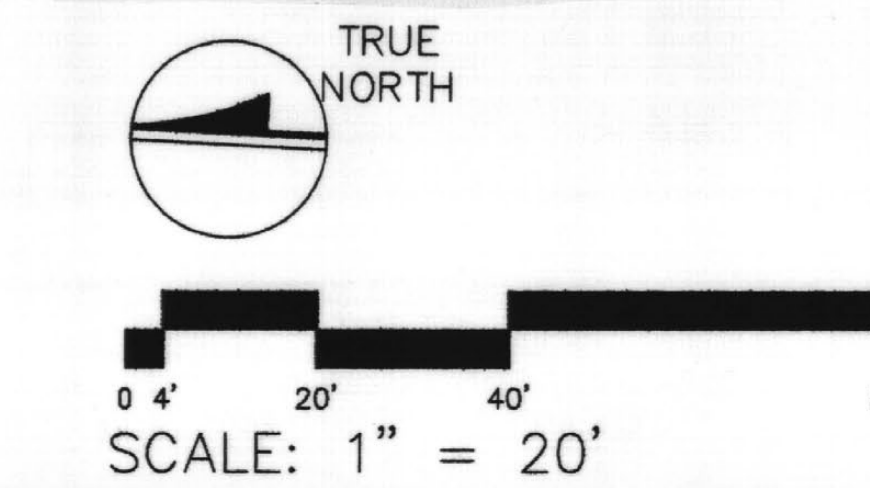
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.

21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED8 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CHRISTOPHER MILLER WOODFORD, INC.  
ARCHITECTURAL PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
401 E. VINE STREET  
LEXINGTON, KENTUCKY 40507

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PROJECT STAGING PLAN

UTILITY UPGRADE - PHASE 1

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

SHT. PROJECT TITLE

DATE: DECEMBER, 2000

DRAWN BY: MAW

CHECKED BY: JAB

DATE

P-1

SHEET NUMBER

0.5

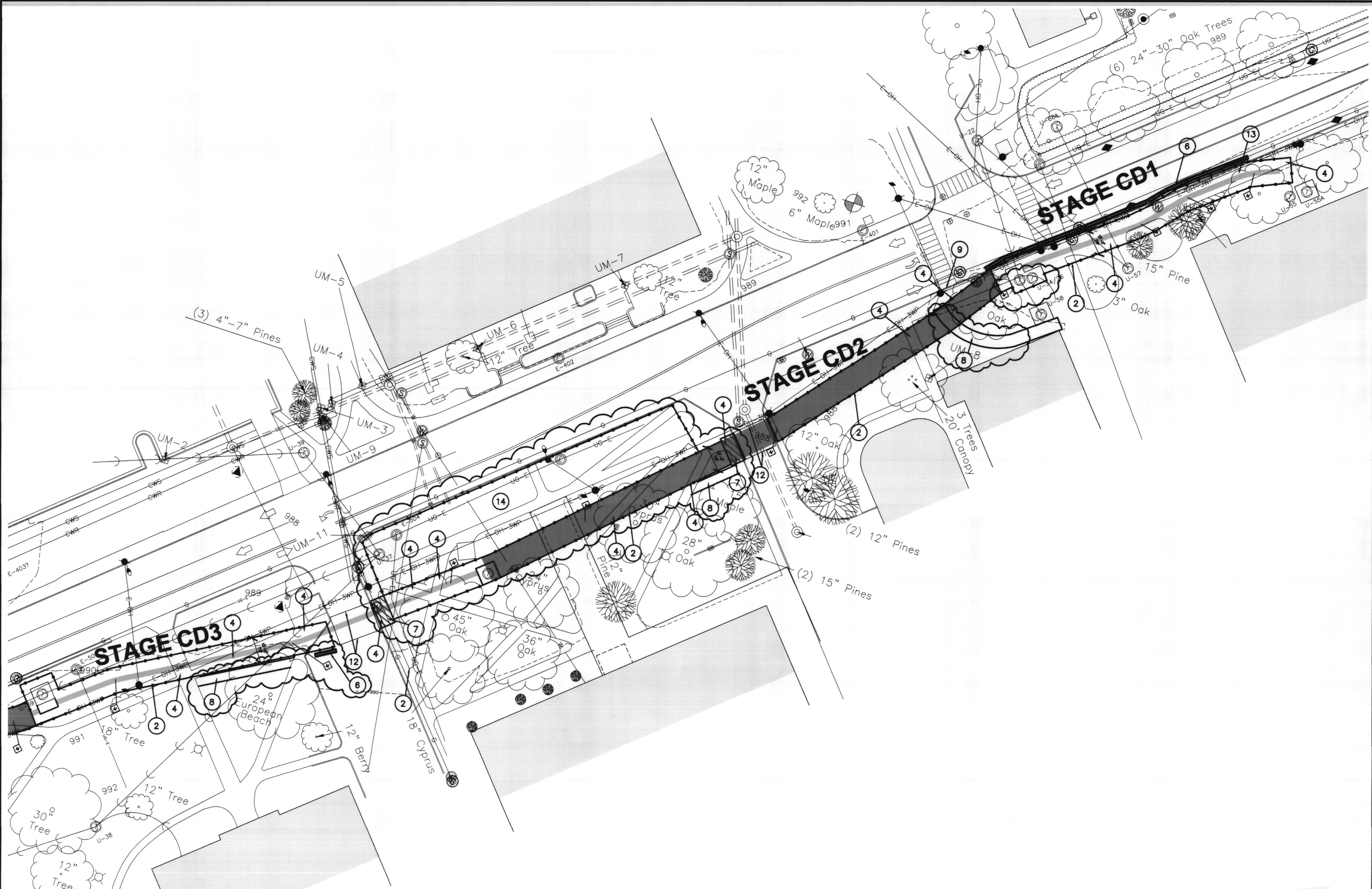
PROJECT NAME

99024.02

C-1

174

25160



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

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DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.

REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

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CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION, MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
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10. MAINTAIN EXISTING GROUND INSULATION.
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17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR DUCTBANK.

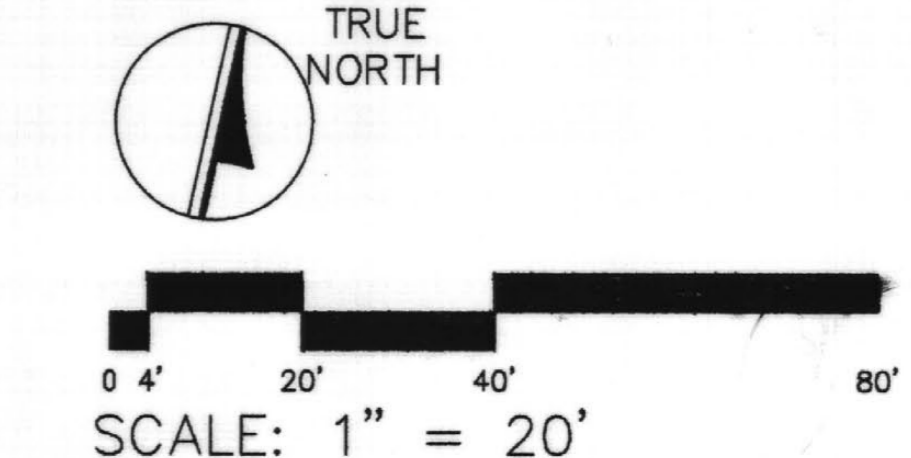
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.

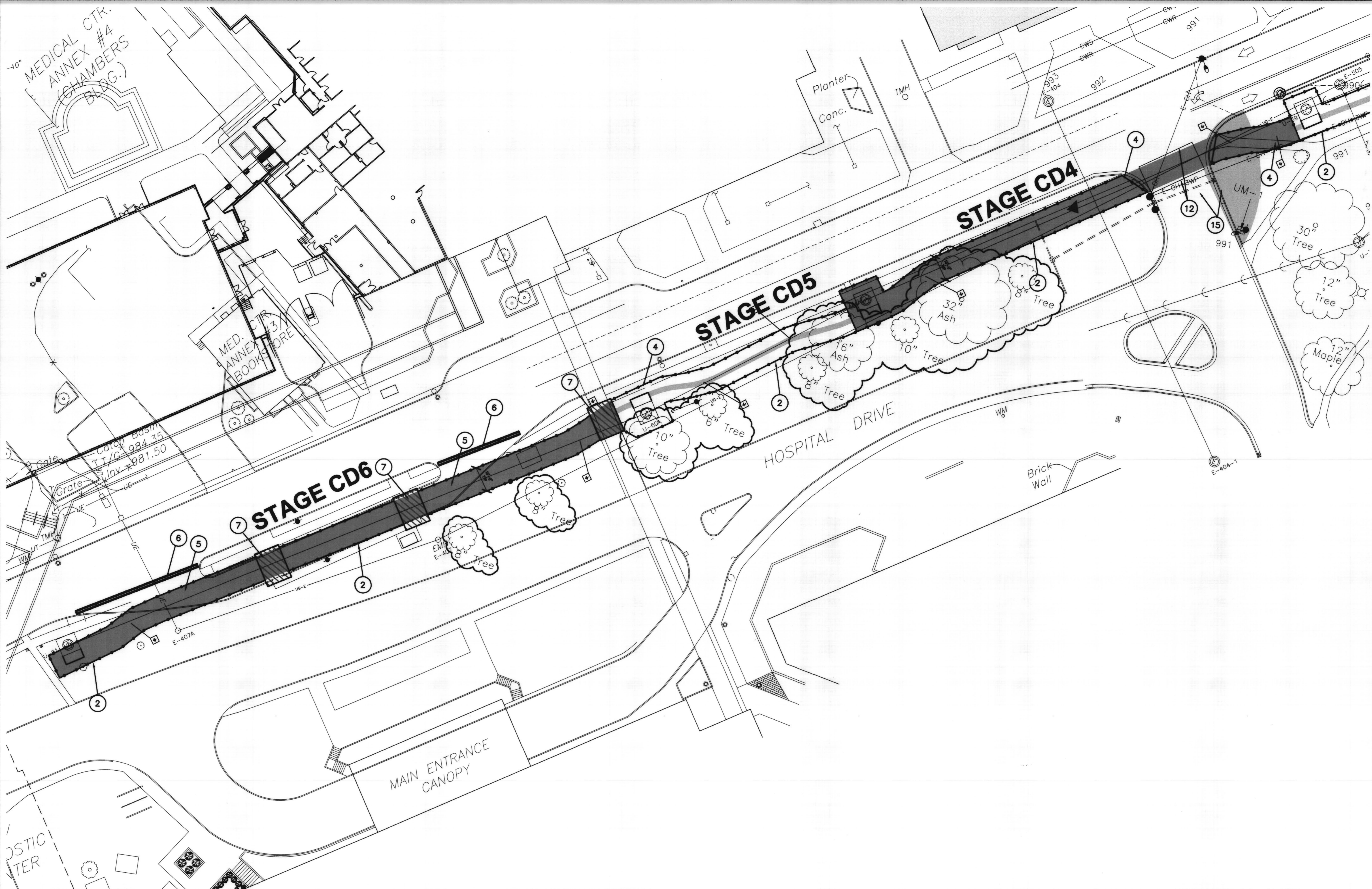
RECORD DRAWINGS DATE 11/20/2003

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PROJECT STAGING PLAN  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER 2000
DRAWN BY:	MAW
CHECKED BY:	JAB
REVIEWED:	
DATE:	11/20/03
SHEET NUMBER	0.6
PROJECT NUMBER	99024.02
CAD #	
174	C-1 25461



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.

DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.

REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

MAKE REQUIRED APPLICATIONS AND COORDINATE WITH THE APPROPRIATE AUTHORITY THE INSTALLATION OF CONCRETE BARRICADES TO PICK UP ONE LANE OF THE EAST SIDE OF LIMESTONE STREET AS SHOWN.

THE CONSTRUCTION STAGE NOTES ARE A MASTER LIST OF ITEMS, AND AS SUCH SOME TIMES ARE NOT APPLICABLE TO SOME SHEETS.

ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

CONSTRUCTION FENCE SHALL BE THE LIMIT OF CONSTRUCTION, MATERIAL SHALL NOT BE STORED OUTSIDE CONSTRUCTION LIMITS. ACCESS TO STAGE AREAS SHALL BE ESTABLISHED WITH OWNERS REPRESENTATIVE PRIOR TO WORK.

STORAGE OF MATERIAL WITHIN CONSTRUCTION LIMITS SHALL NOT OCCUR WITHIN DRIP LINE OF TREES.

**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY CONCRETE SIDEWALK. TEMPORARY SIDEWALK SHALL BE 5'-0" WIDE X 4" THICK. NO BASE IS PREFERRED TO MINIMIZE DAMAGE TO EXISTING PLANTS.
9. INSTALL REINFORCED CONCRETE WALL ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.

11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM. INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
13. ALL WORK AT STAGE CD1 SHALL BE DONE BETWEEN 8 PM AND 6 AM. CONSTRUCTION ACCESS FOR CD1 SHALL BE FROM HILLTOP AVENUE.
14. CONSTRUCTION STAGING AREA: PRESERVE EXISTING TREES IN AREA, AND RESTORE TO ORIGINAL CONDITION.
15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSED AREA TO ORIGINAL CONDITION.
16. NEW CONCRETE SIDEWALK SHALL BE EXTENDED TO BACK OF CURB. (TURF AREA SHALL BE REMOVED IN ADDITION TO REPLACING EXISTING SIDEWALK.)
17. REPLACE EXISTING BRICK PATTERN WITH CONCRETE SLAB.
18. WIDTH OF CONSTRUCTION LIMITS IN THIS AREA SHALL NOT EXCEED THE FIRST LANE OF TRAFFIC.
19. CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.

20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENGINEER AND CONSTRUCT A SOIL STABILIZATION / UNDERPINNING SYSTEM BELOW THE EXISTING STONE WALL DURING EXCAVATION AND CONSTRUCTION OF THE UTILITY DUCT BANK. EXISTING STONE WALL SHALL NOT BE DEMOLISHED OR DISTURBED DURING SAID CONSTRUCTION. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR ANY REPAIRS REQUIRED FOR STONE WALL ARISING FROM CONSTRUCTION OF PROJECT AS DICTATED BY AND SUBJECT TO APPROVAL OF OWNER.

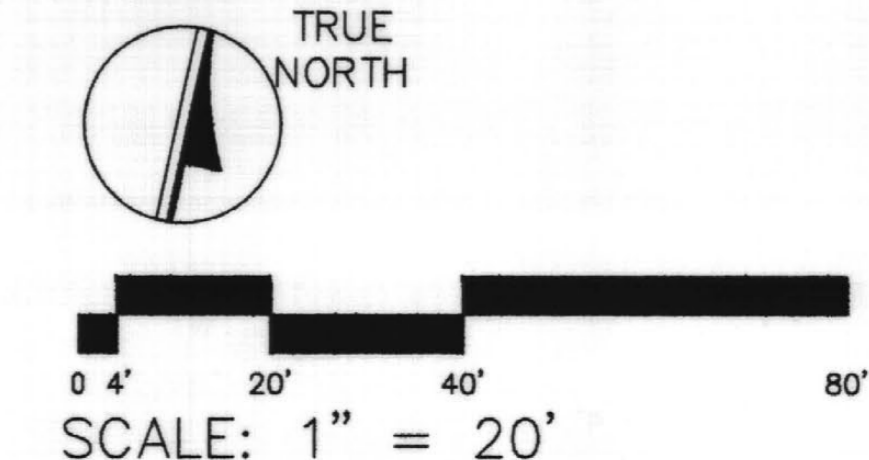
21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.

22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED5 CONSTRUCTION.

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



**CMW, INC.**  
 CHRISTIAN - MILLER - WOODFORD, INC.  
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
 401 E. WINE STREET  
 LEXINGTON, KENTUCKY 40507

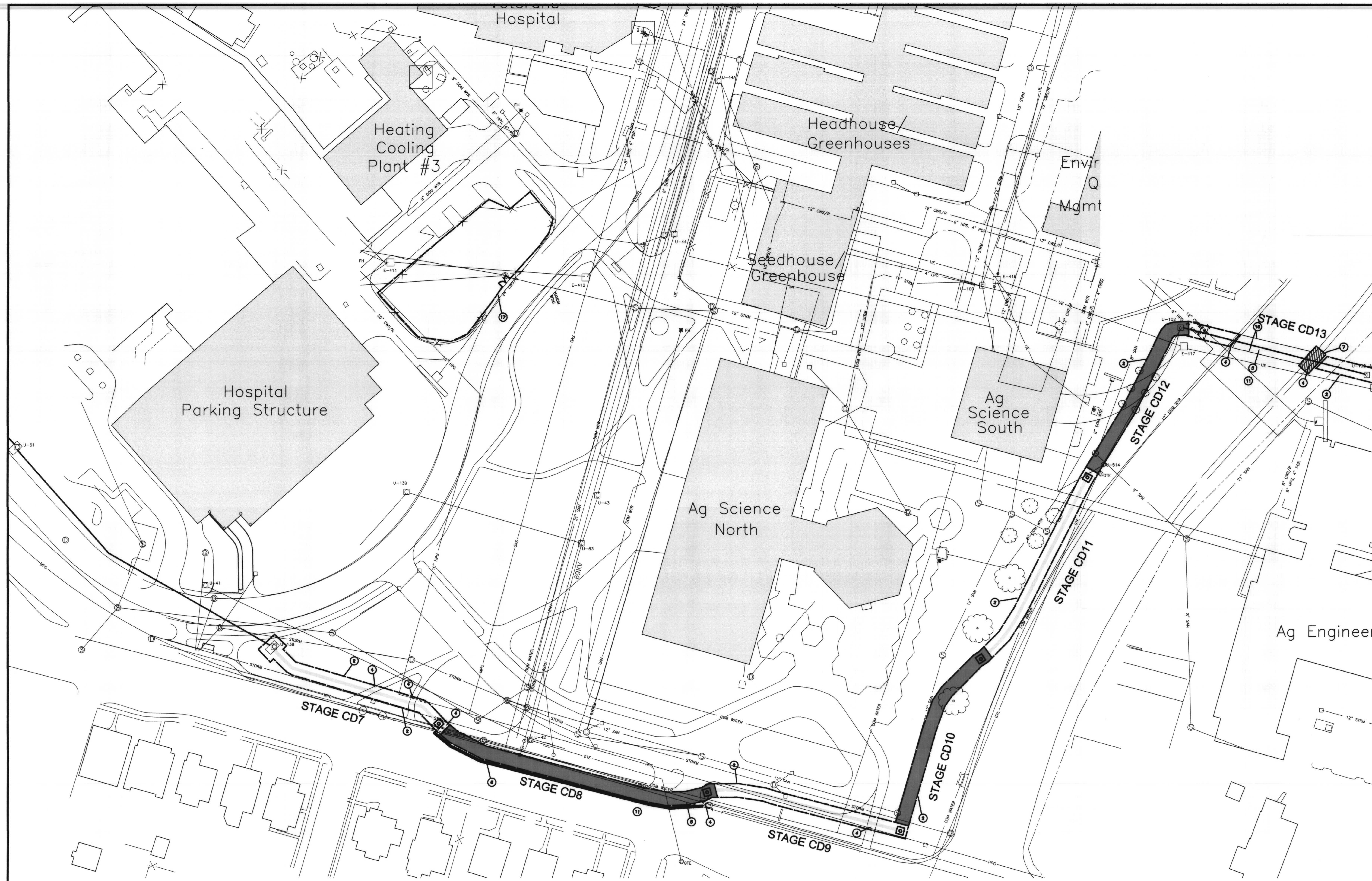
PROJECT STAGING PLAN  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISIONS:  
 DATE 1  
 #

SHEET NUMBER  
**0.7**

PROJECT NUMBER  
 99024.02

174 C-1 25462



**GENERAL NOTES**

DUCTBANK WORK SHALL BE PERFORMED IN STAGES AS INDICATED. REFER TO THE SPECIAL CONDITIONS.

STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.

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REMOVE TREES AND SHRUBS AS NEEDED FOR CONSTRUCTION, AND REPLACE REMOVED PLANTS TO ORIGINAL CONDITION.

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ALL DISTURBED AREAS SHALL BE PUT BACK TO THEIR ORIGINAL CONDITION AT COMPLETION OF STAGE OF WORK.

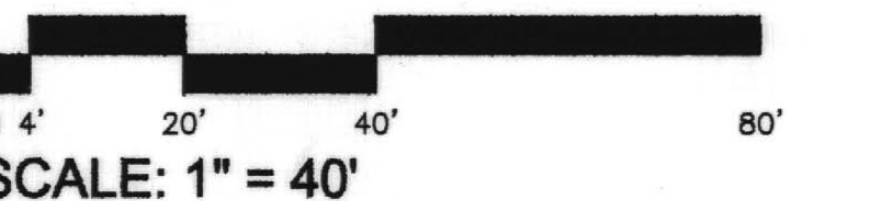
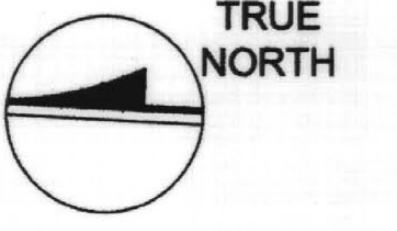
**CONSTRUCTION - STAGE NOTES**

1. CONVERT NORTH TURN LANE INTO NORTH TRAFFIC LANE.
2. INSTALL CONSTRUCTION FENCE AS SHOWN. FENCE SHALL BE 6'-0" CHAIN LINK.
3. ONE LANE OF ADMINISTRATION DRIVE MUST REMAIN OPEN AT ALL TIMES.
4. DEMO CONCRETE SIDEWALK.
5. DEMO ASPHALT STREET.
6. CONCRETE BARRICADE
7. BUILD TEMPORARY PEDESTRIAN BRIDGE TO OSHA AND ADA STANDARDS. CONTRACTOR SHALL SUBMIT BRIDGE DESIGN AND CALCULATION WITH THE SEAL OF A REGISTERED ENGINEER FOR REVIEW.
8. INSTALL TEMPORARY SIDEWALK.
9. INSTALL ADA ACCESS RAMP IN CURB.
10. MAINTAIN EXISTING GROUND INSULATION.
11. ALL WORK IN LIMESTONE STREET AND COPPER DRIVE SHALL BE DONE BETWEEN 8 PM AND 6 AM.
12. DUCTBANK TRENCH AT STREET INTERSECTIONS: EXCAVATE STREET INTERSECTION BETWEEN 8 PM AND 6 AM, INSTALL STEEL PLATE DURING THE DAY. MAINTAIN ONE LANE OF ACCESS AT ALL TIMES FOR EMERGENCY VEHICLE ACCESS.
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15. TWO LANES OF HOSPITAL DRIVE MUST REMAIN OPEN AT ALL TIMES. USE THE GRASSSED AREA TO THE EAST SIDE OF HOSPITAL DRIVE FOR THIS PURPOSE. RESTORE GRASSSED AREA TO ORIGINAL CONDITION.
16. WORK AT COOPER DRIVE SHALL BE DONE AT NIGHT AS INDICATED AND PLATED DURING THE DAY. BARRICADES FOR WORK AREAS SHALL BE COORDINATED WITH THE APPROPRIATE AUTHORITIES.
17. N.I.C. STAGING AREA FOR UTILITY UPGRADE - PHASE 1. SHALL BE SUPPLIED BY THE UNIVERSITY OF KENTUCKY.

RECORD DRAWINGS DATE 11/20/2003

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CMW, INC.



FAILURE TO MAKE BY DESIGN DOCUMENTS OR THE DESIGN PROFESSIONAL, IN ANY CASE, SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION AND THE DESIGN. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE DESIGN PROFESSIONAL TO COMPLETE THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE DESIGN PROFESSIONAL TO COMPLETE THE PROJECT.

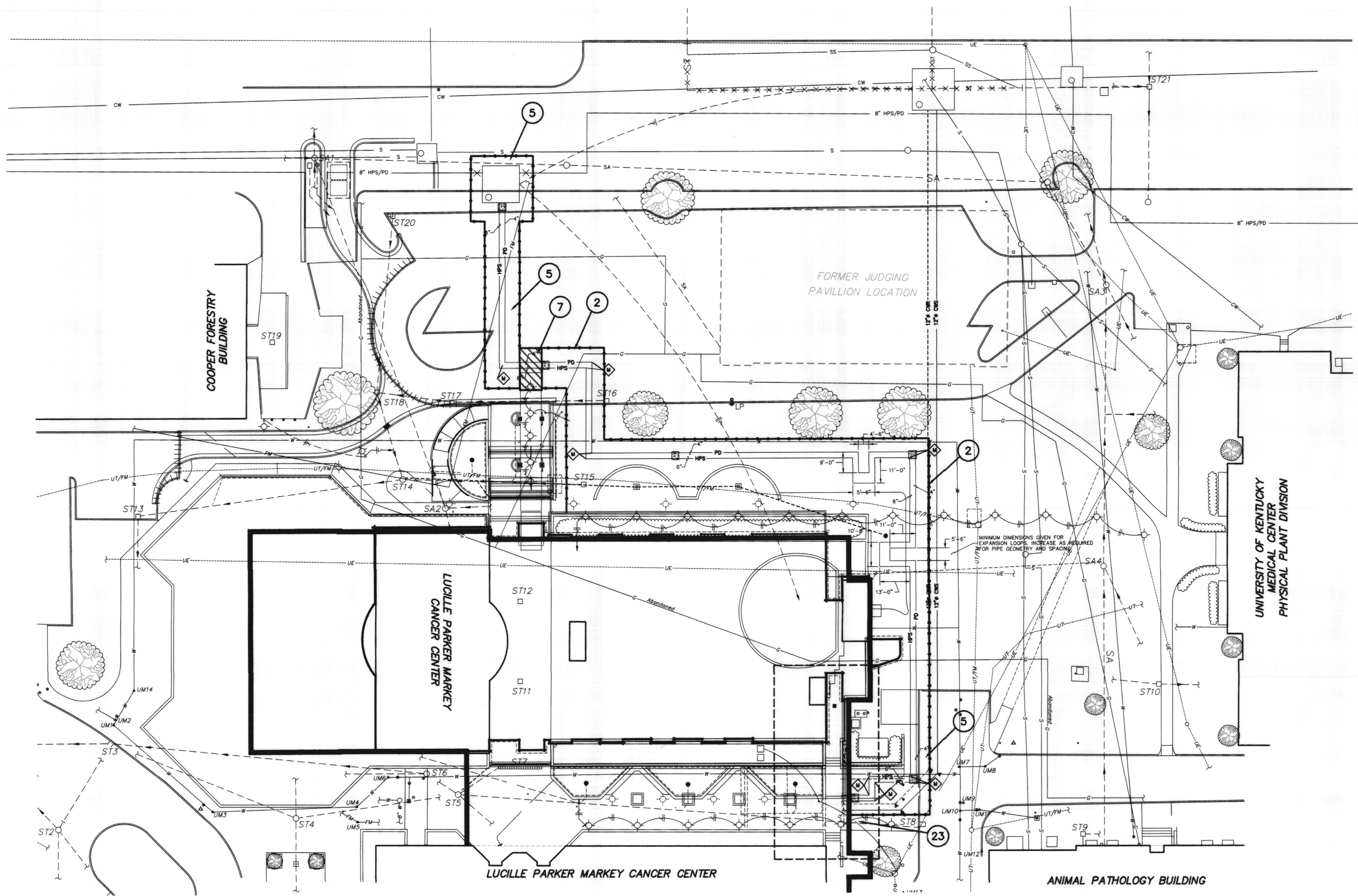
**PROJECT STAGING PLAN**  
 UTILITY UPGRADE - PHASE 1  
 UNIVERSITY OF KENTUCKY  
 LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2003  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISED: JAB  
 DATE: 1-2-04

SHEET NUMBER  
**0.8**

PROJECT NUMBER  
 99024.02

174 C-1 25463



**HUGUELET DRIVE - SITE PLAN**

10 0 20 40 FEET  
 GRAPHIC SCALE: 1"=20'-0"

**GENERAL NOTES**

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 STAGE NUMBERING IS CODED TO IDENTIFY THE WORK AS FOLLOWS: "ED" REFERS TO ELECTRICAL DUCTBANK, "CD" REFERS TO COMMUNICATION DUCTBANK.  
 DEMOLISH ASPHALT OR CONCRETE PAVEMENT AND CURBS AS NEEDED FOR CONSTRUCTION, AND REPLACE TO ORIGINAL CONDITION.  
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21. REMOVE BOTH DRIVEWAY CURB CUTS AND REPLACE WITH STANDARD CURB AND WALK.
22. SIDEWALK ALONG EAST SIDE OF LIMESTONE BETWEEN VIRGINIA AVE. AND WASHINGTON AVE. SHALL BE CLOSED DURING STAGE ED3 CONSTRUCTION.
23. EGRESS DOORS FROM BUILDING SHALL BE MAINTAINABLE AT ALL TIMES.

RECORD DRAWINGS DATE 11/20/2003  
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 CMW, INC.

**CMW**  
 CHRISTMAN MILLER WOODFORD, INC.  
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
 LEVINGTON, KENTUCKY 40507  
 (606) 254-8823  
 400 E. VINE STREET

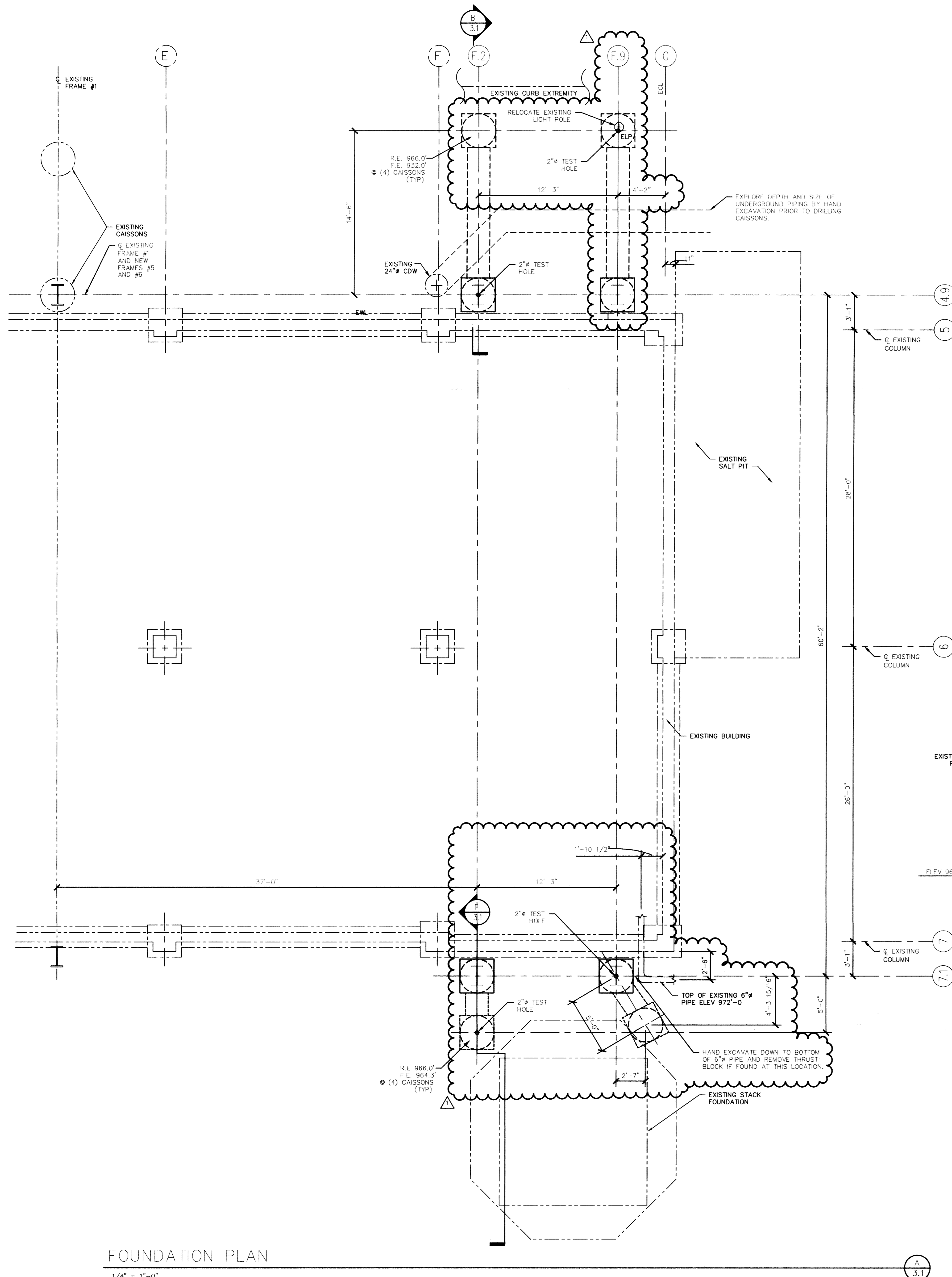
**PROJECT STAGING PLAN**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHEET: PROJECT TITLE  
 DATE: DECEMBER 2003  
 DRAWN BY: MAW  
 CHECKED BY: JAB  
 REVISED: DATE

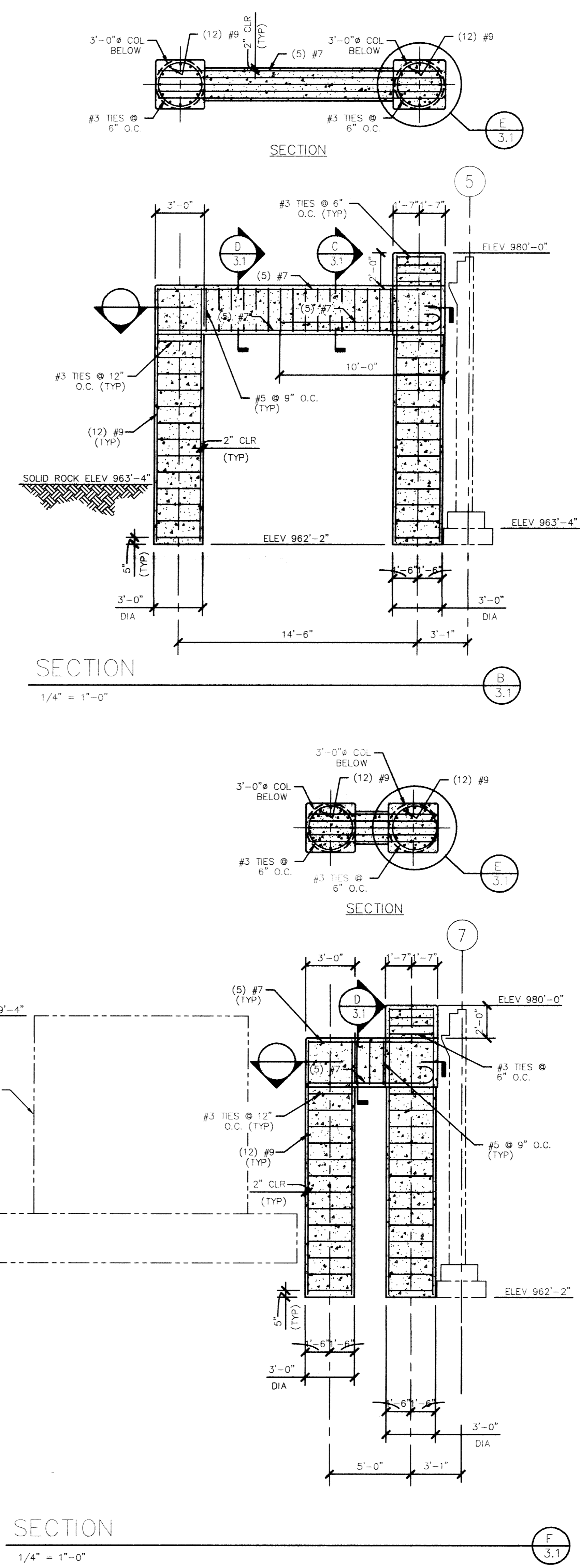
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 PROJECT NUMB  
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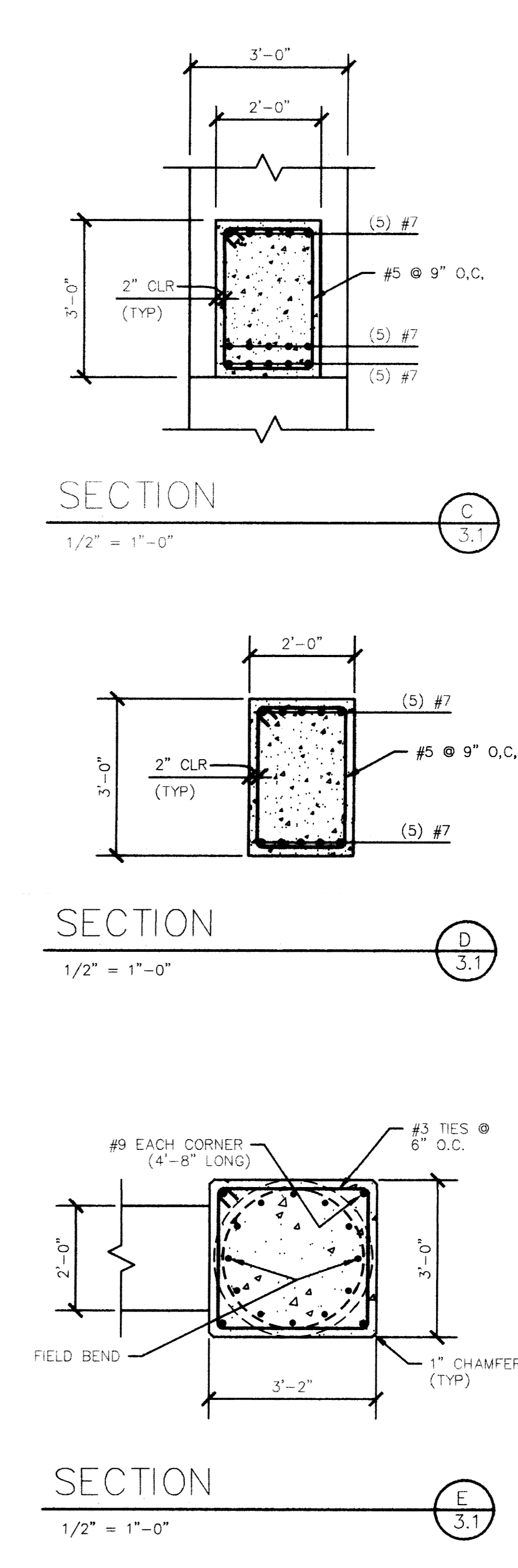


FOUNDATION PLAN  
1/4" = 1'-0"



SECTION  
1/4" = 1'-0"

- NOTES:
1. R.E. DENOTES ESTIMATED SOLID ROCK ELEVATION.
  2. F.E. DENOTES ESTIMATED BOTTOM OF CAISSON.
  3. TEST HOLES TO BE 8'-0" BELOW BOTTOM OF CAISSON.
  4. \* R.E. SHOWN WAS BEFORE INITIAL CONSTRUCTION. IF ROCK AT R.E. IS BROKEN DUE TO INITIAL CONSTRUCTION THE FOOTING SHALL BE LOWERED TO AN ELEVATION WHERE IS SOUND.

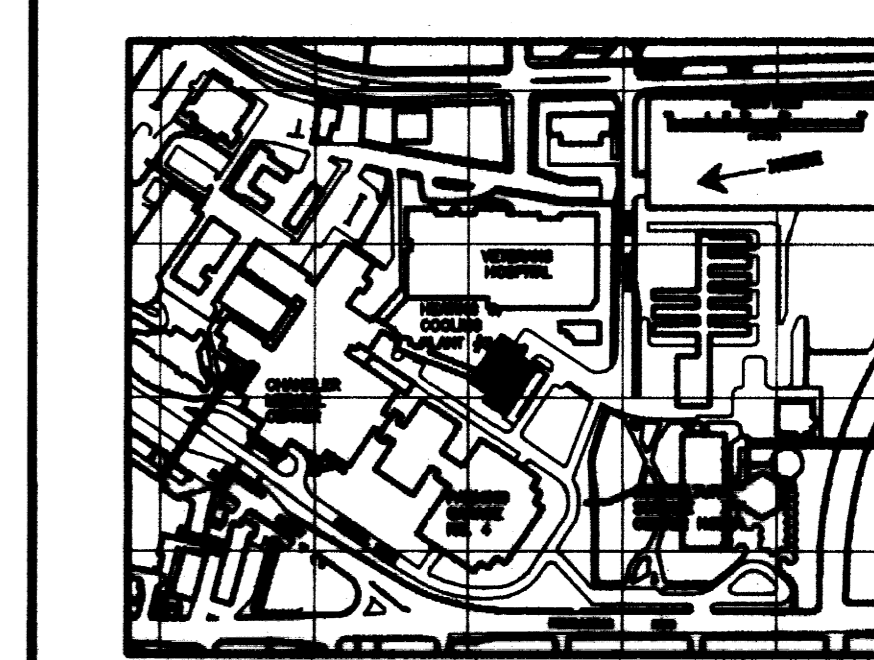



SECTION  
1/2" = 1'-0"

RECORD DRAWINGS DATE 11/20/2003

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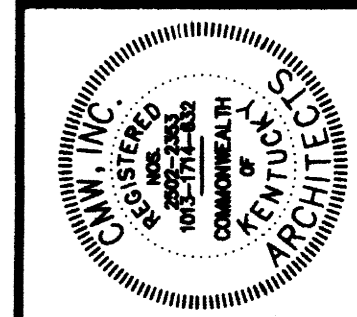
CMW, INC.





CHRISTIAN MILLER WOODFORD, INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
401 E. WEST ST., SUITE 400  
LEXINGTON, KENTUCKY 40507

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JOHN BAKER  
Professional Engineer  
No. 15082  
Ky. S.E. 1987

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FOUNDATION PLAN AND SECTIONS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

---

DATE: DECEMBER  
DRAWN BY: HDP  
CHECKED BY: JB  
REVISED: 04/23/01  
DATE

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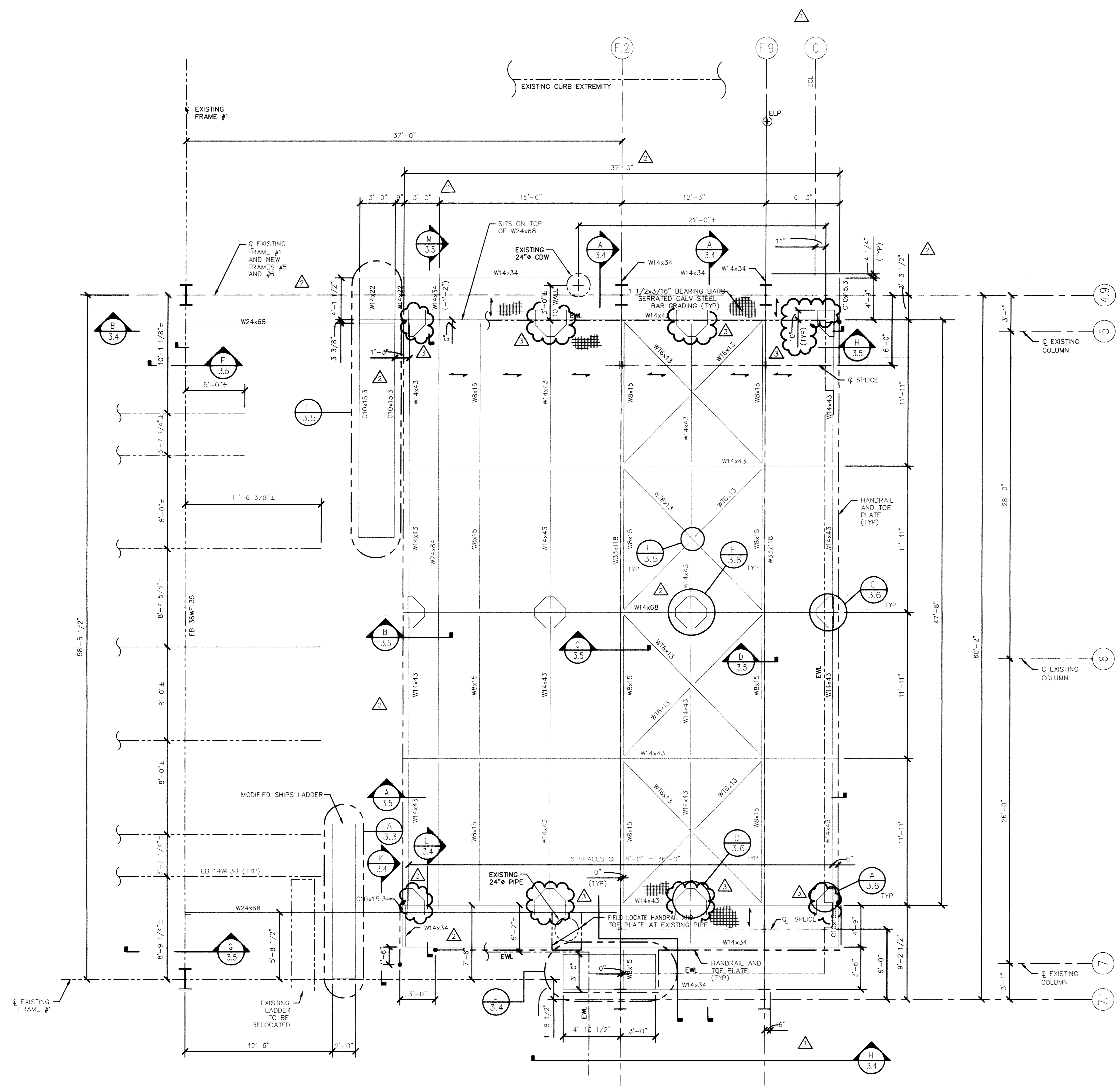
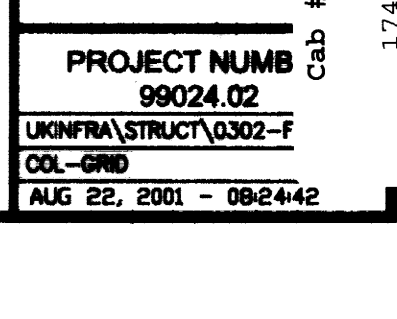
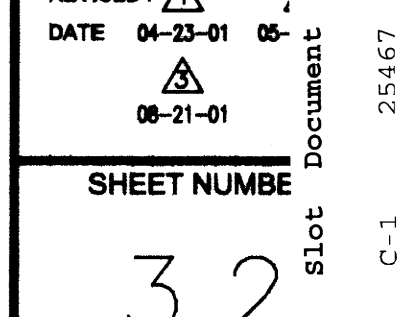
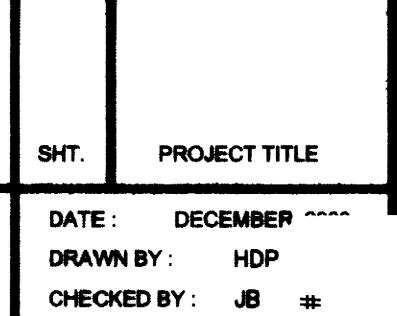
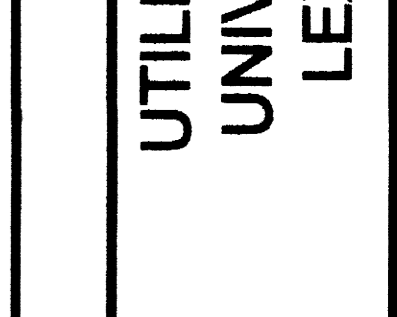
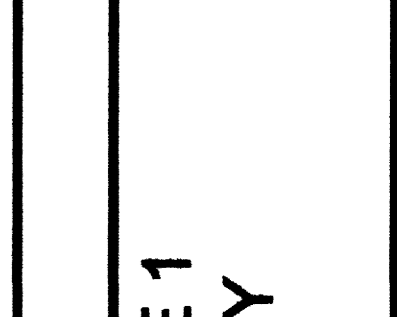
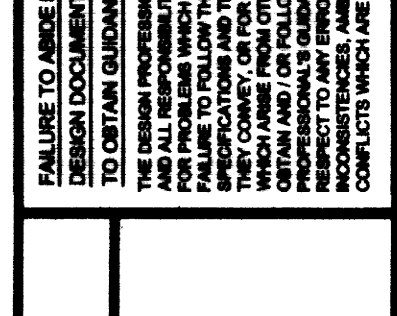
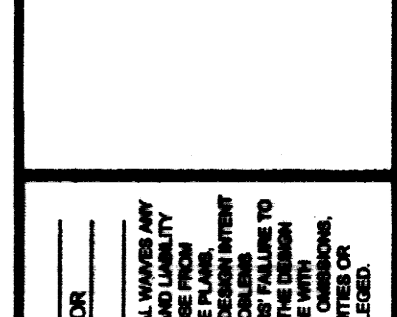
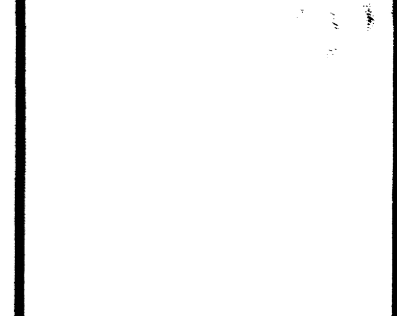
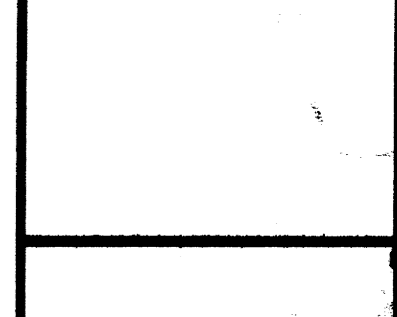
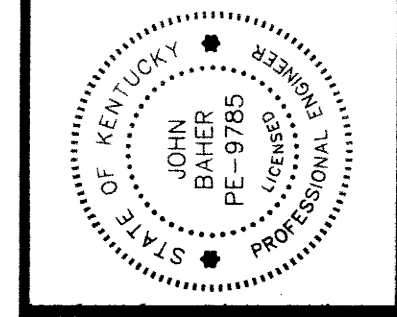
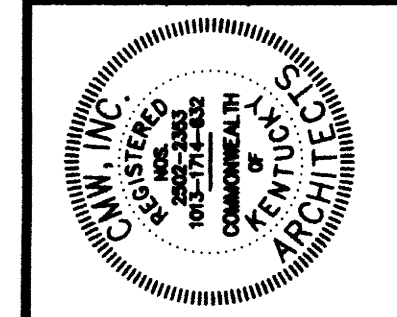
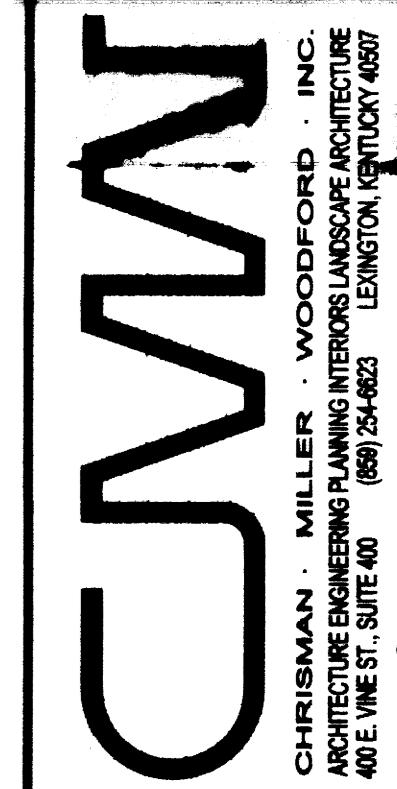
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PROJECT NUMBER  
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UNIFORM STRUCTURAL - F  
COL - GRID  
APR 24, 2001 - 132931

LEGEND

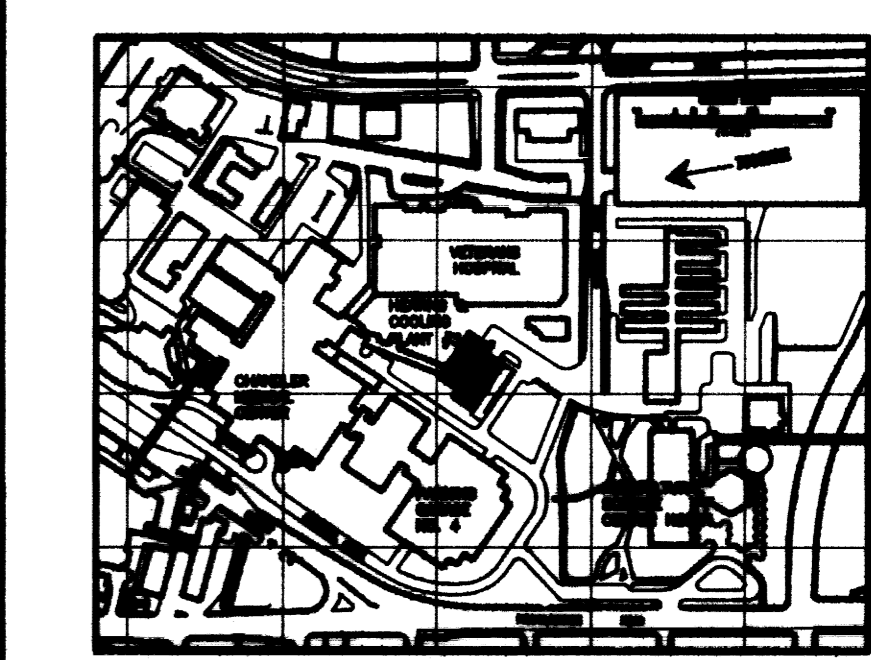
- EB = EXISTING BEAM
- ECL = EXISTING COLUMN LINE
- ELP = EXISTING LAMP POST
- EWL = EXISTING WALL LINE
- CDW = CONDENSATE WATER



FRAMING PLAN  
NOT TO SCALE

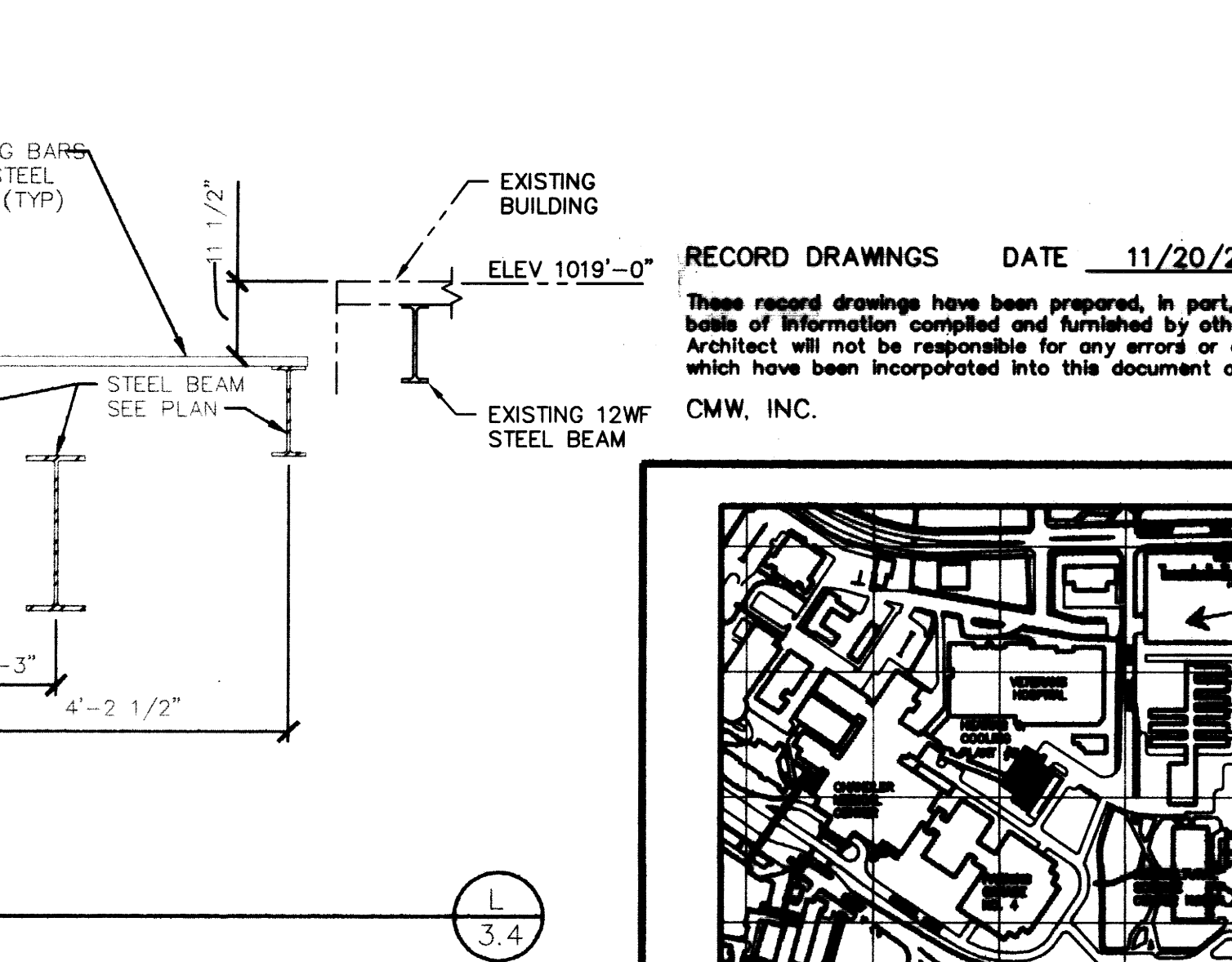
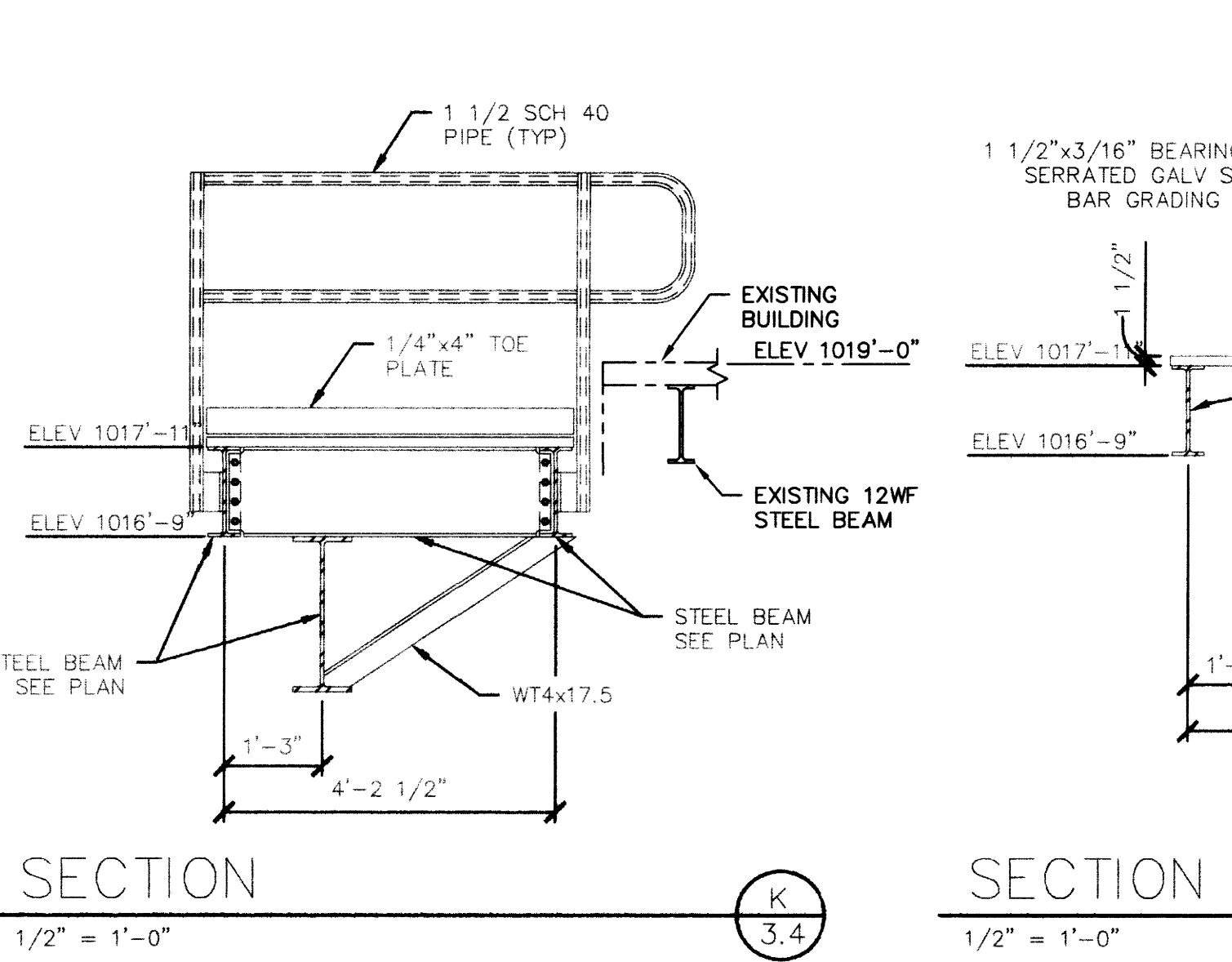
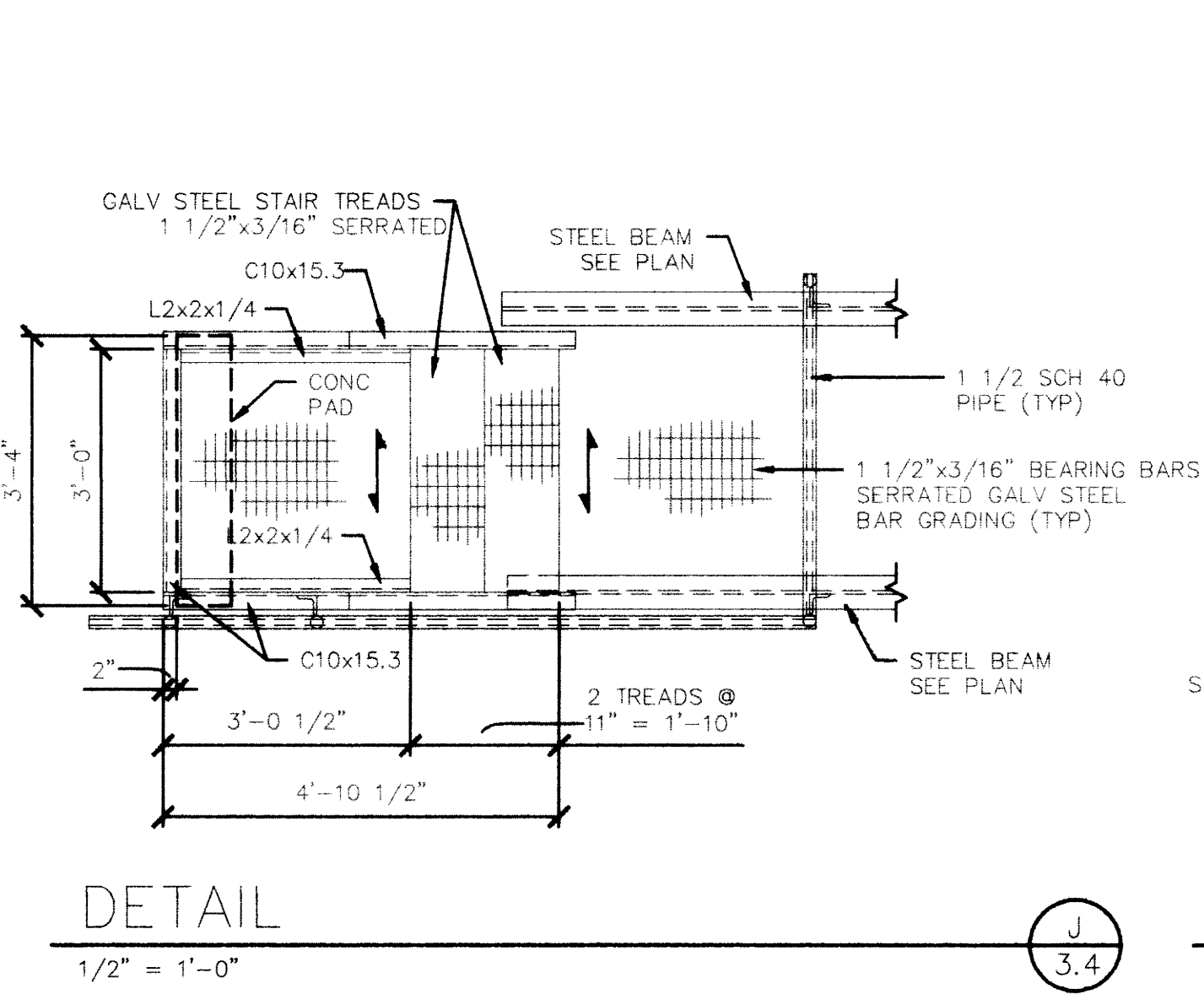
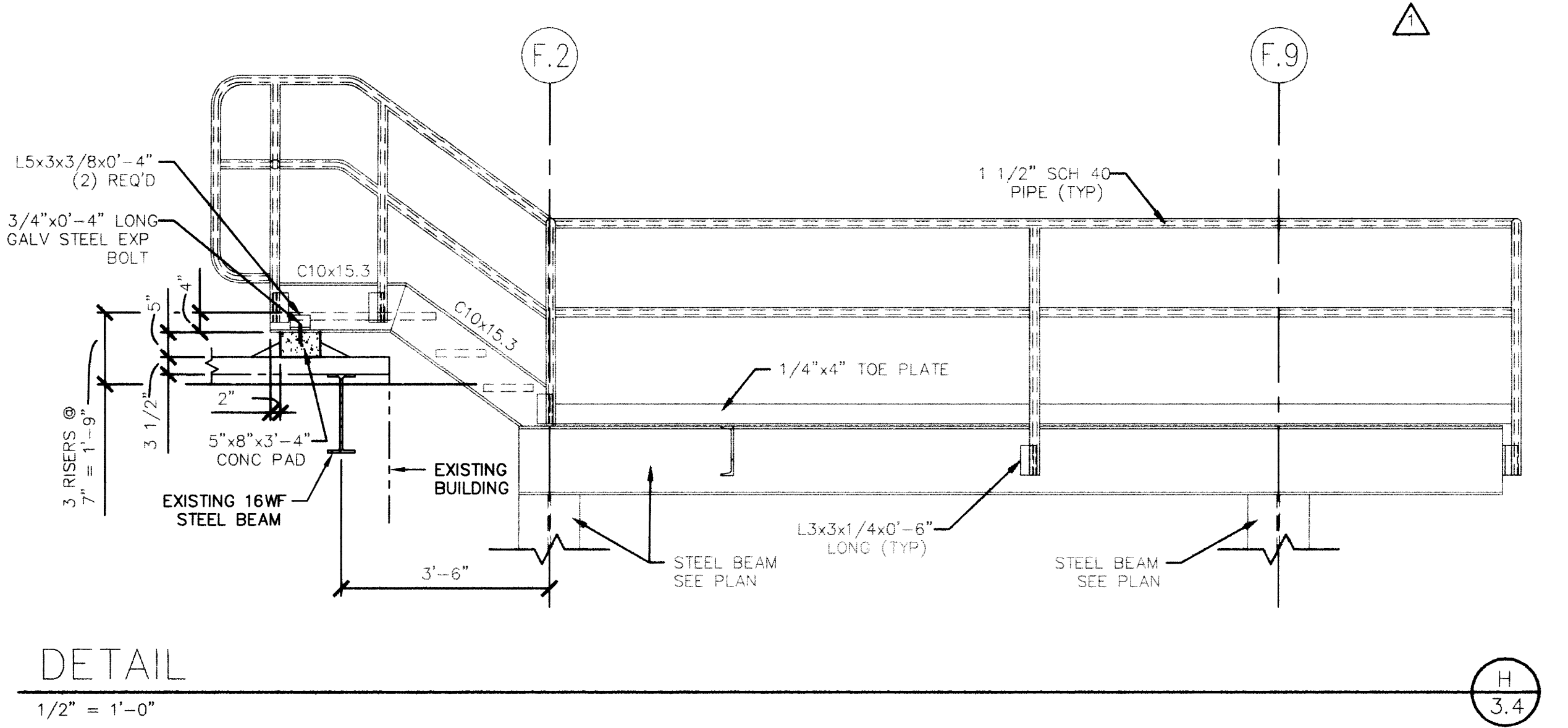
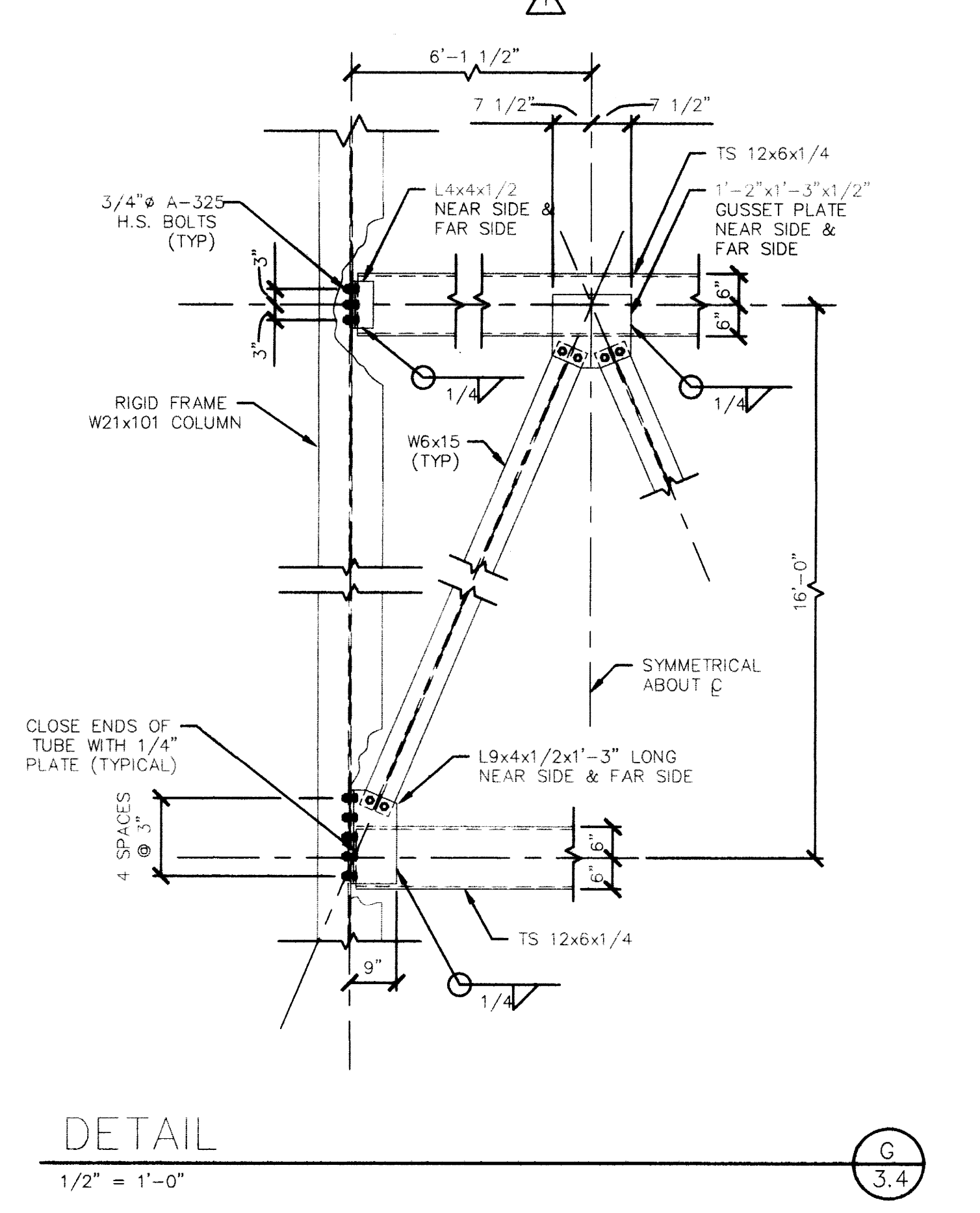
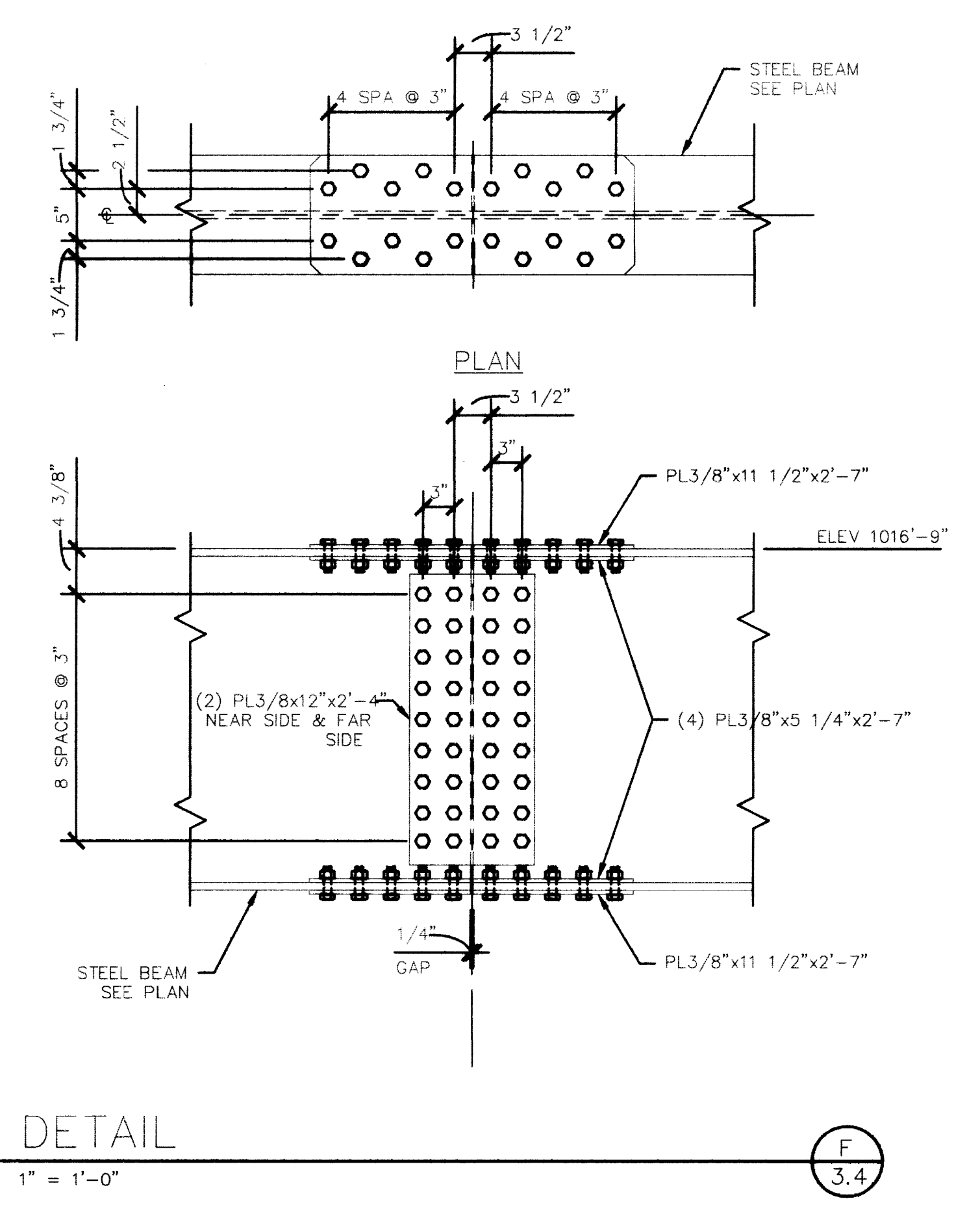
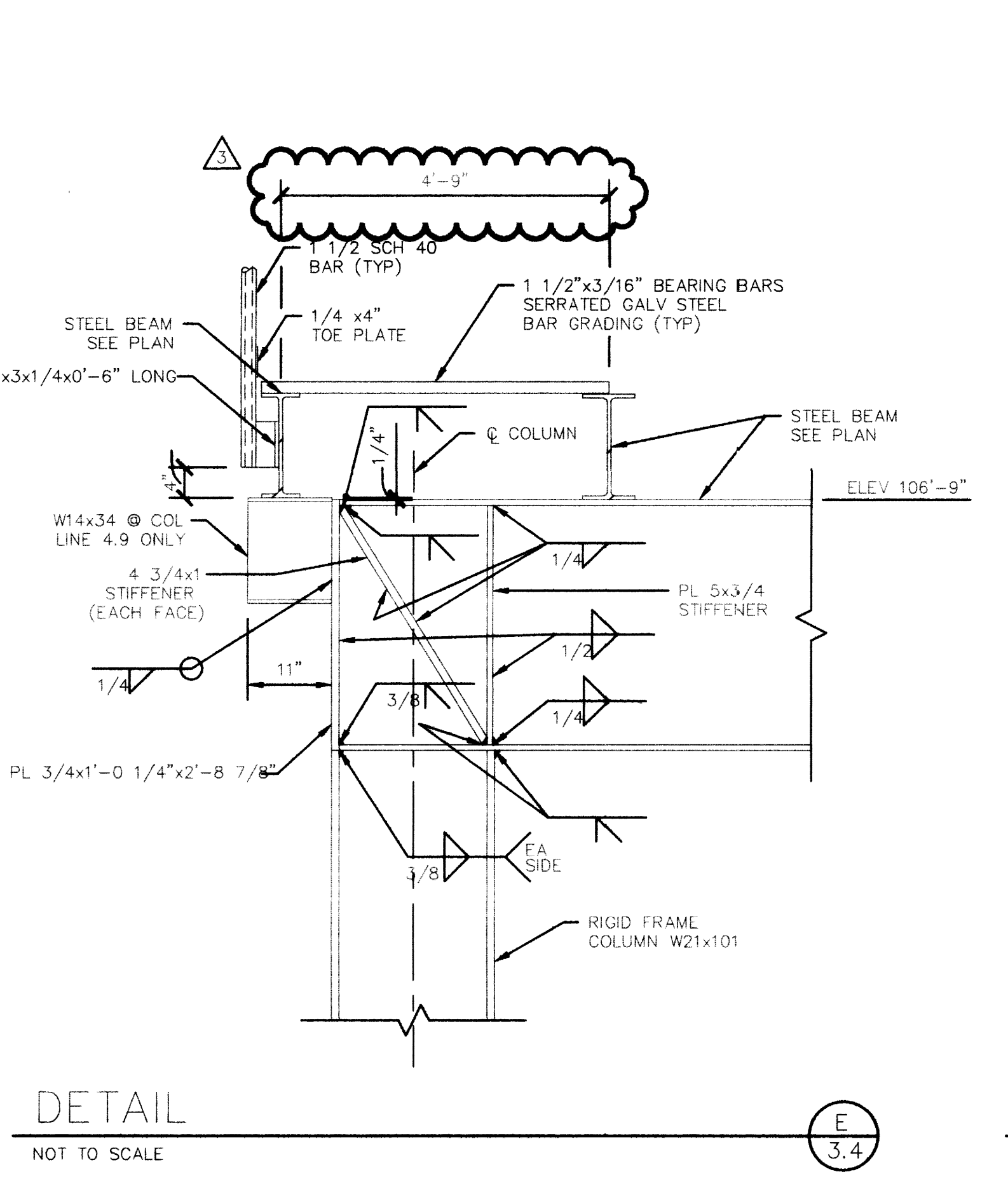
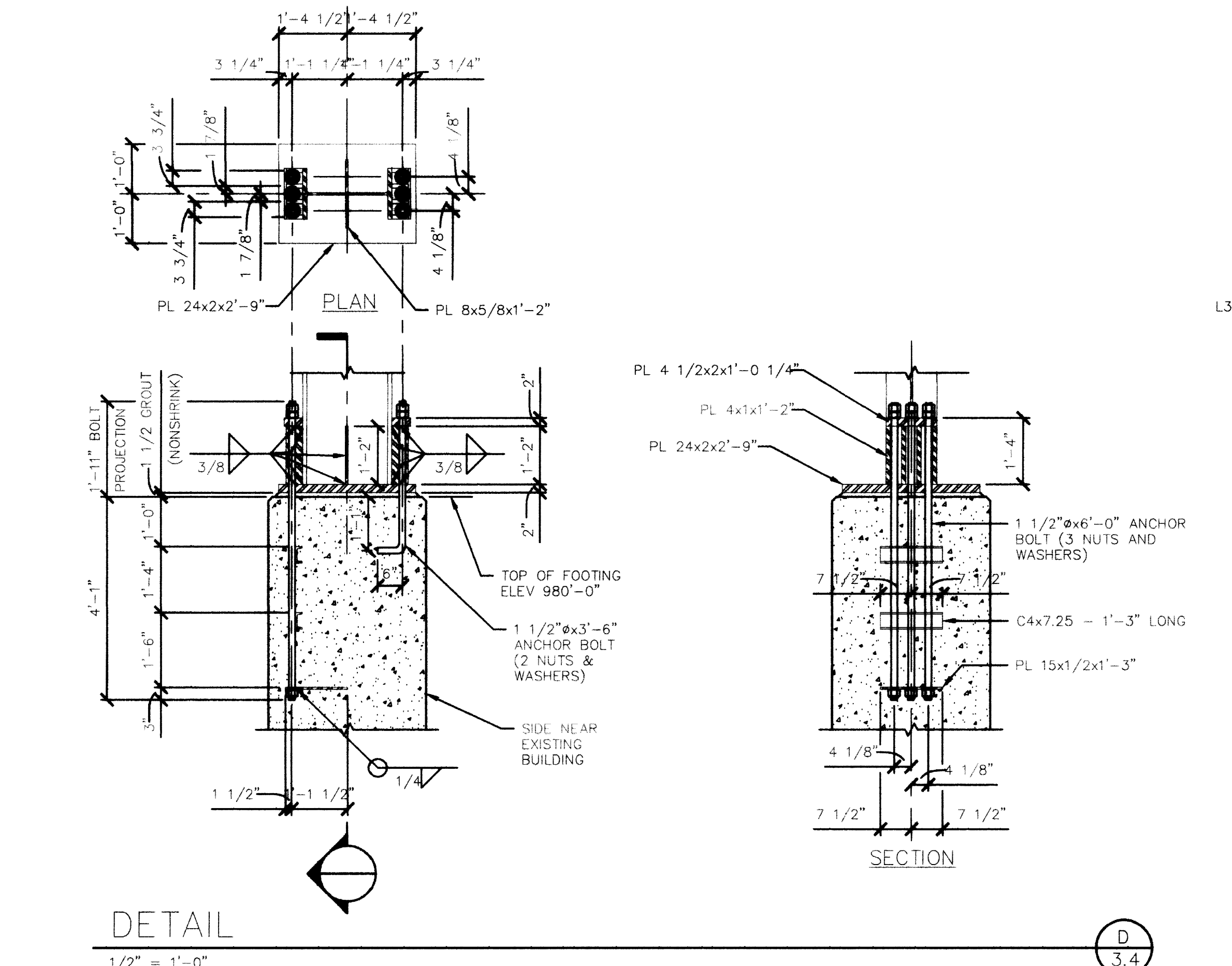
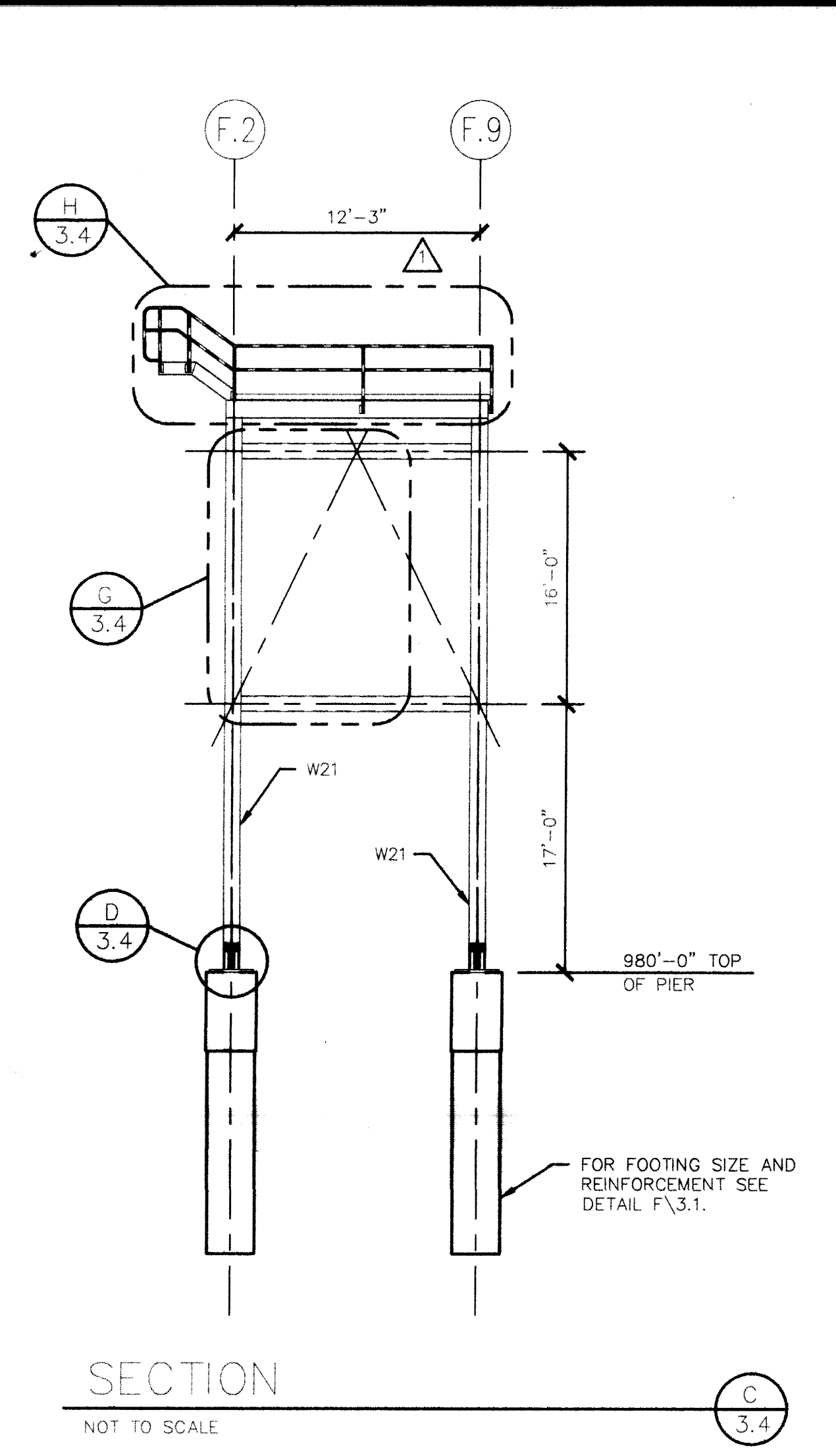
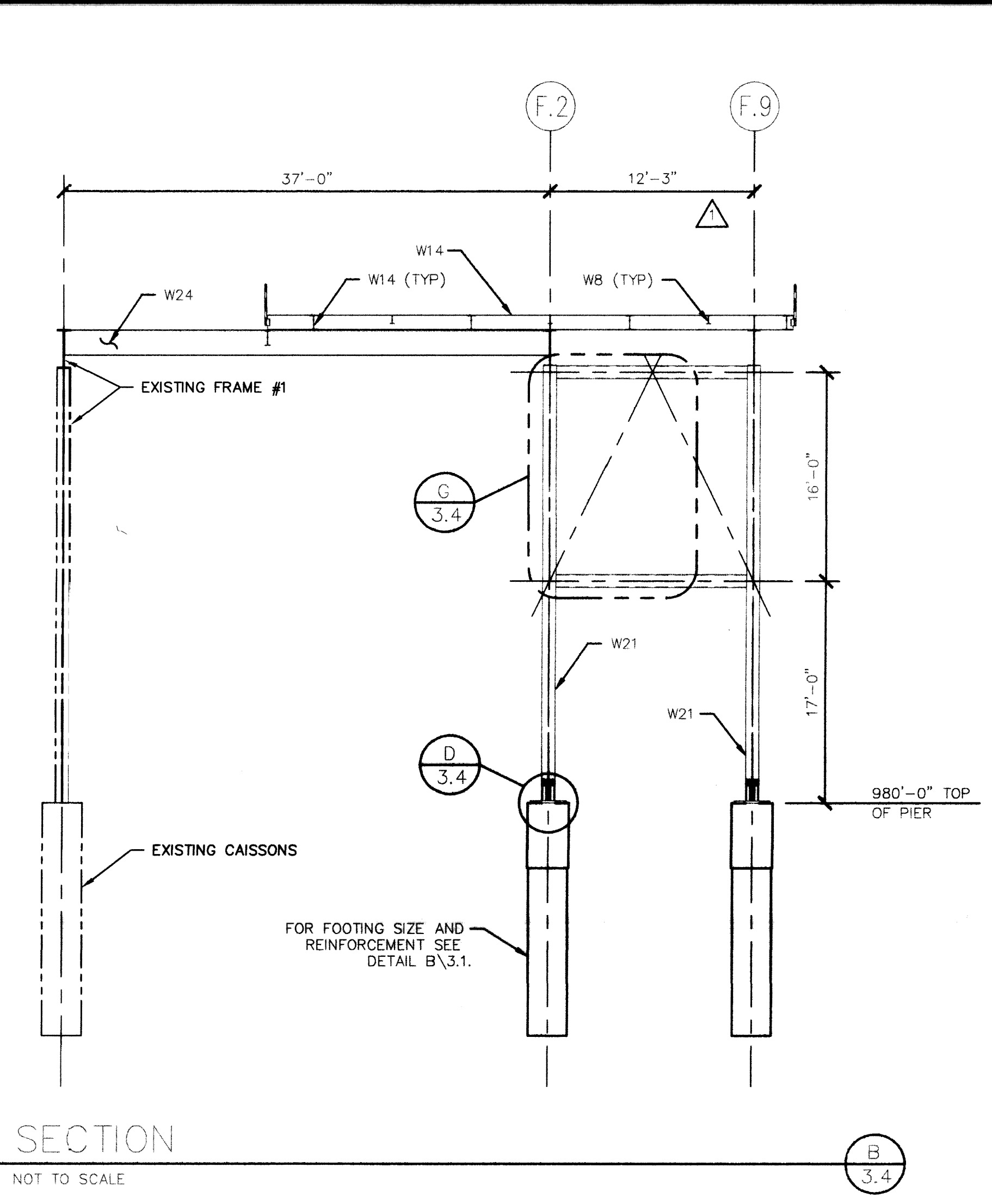
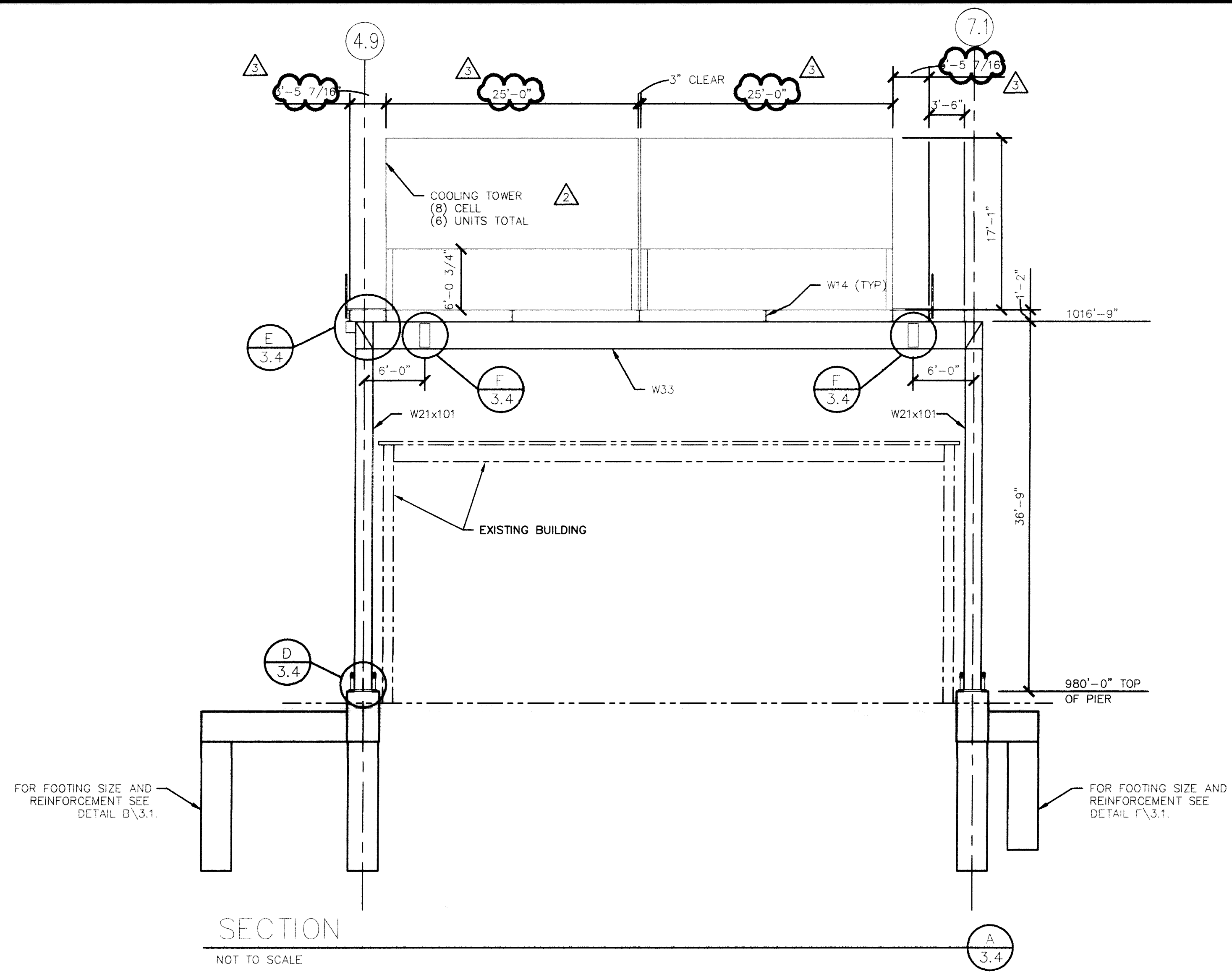
T.O.S. 1017'-11" (A 3.2)

RECORD DRAWINGS DATE 11/20/2003  
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CMW, INC.

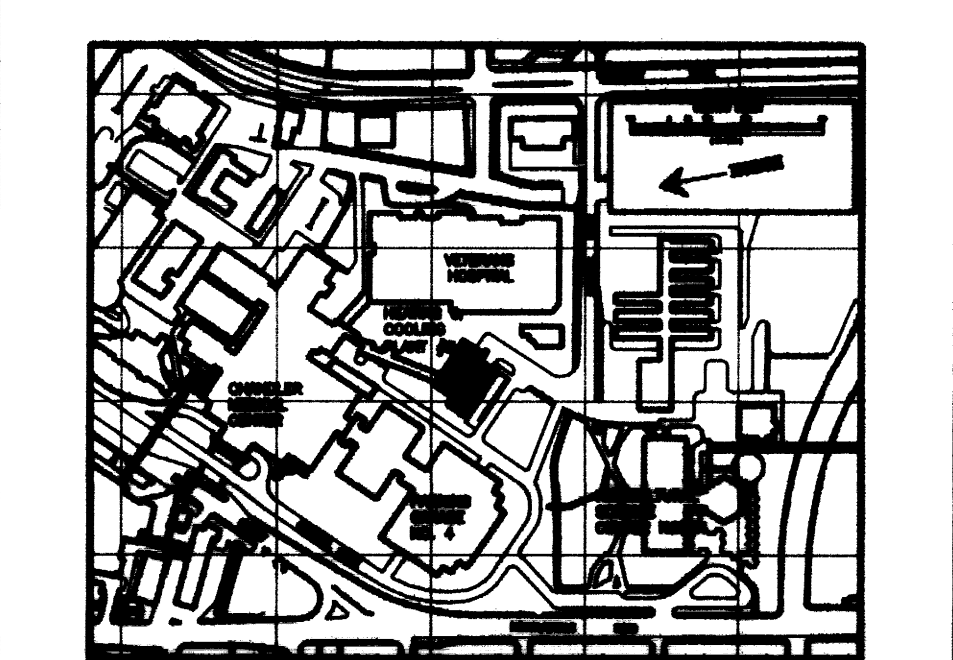


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DATE	DECEMBER
DRAWN BY	HDP
CHECKED BY	JB
REVISED	04-23-01 05
DATE	08-21-01
SHEET NUMBER	3.2
PROJECT NUMBER	98024 02
CAD #	174
C-1	25467
PROJECT NUMBER	98024 02
COL-GRID	174
DATE	08-21-01





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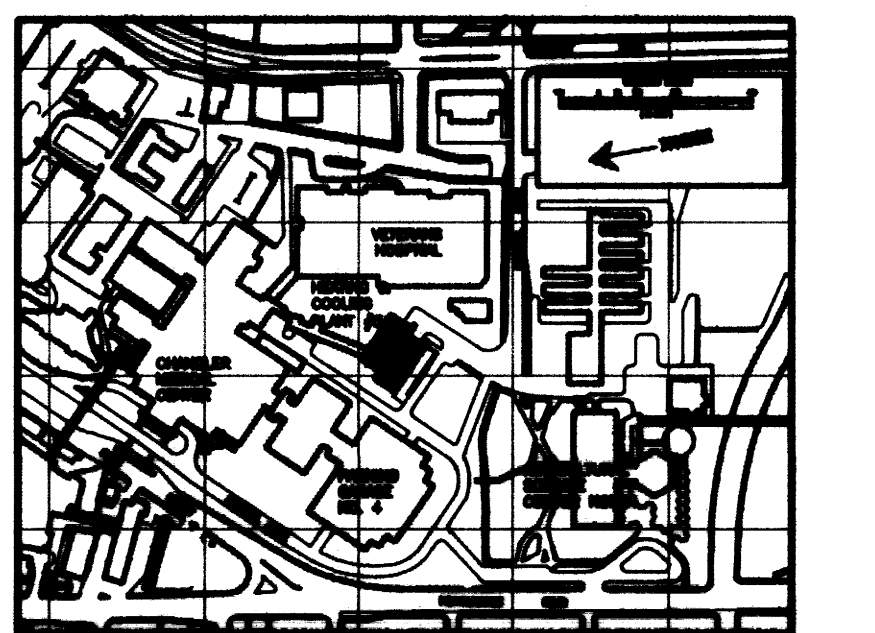
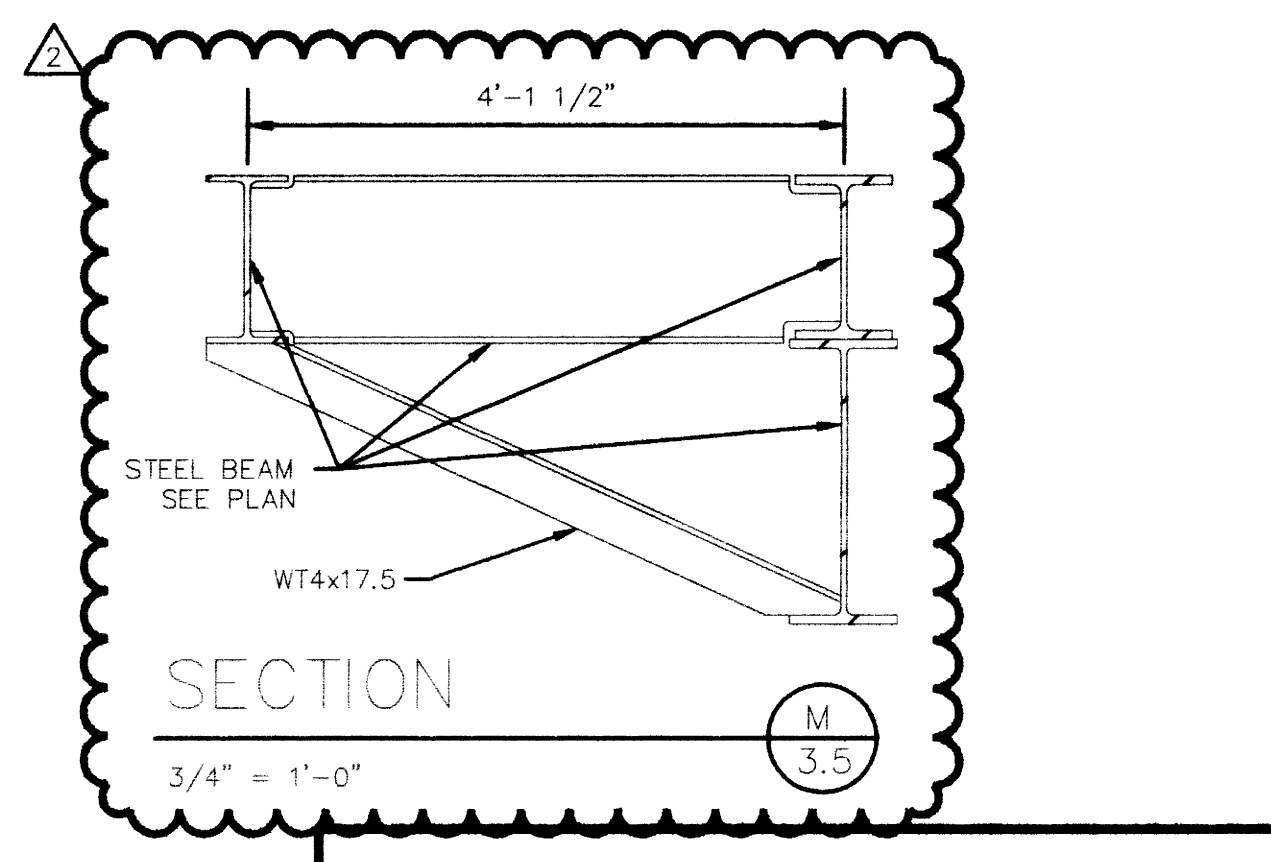
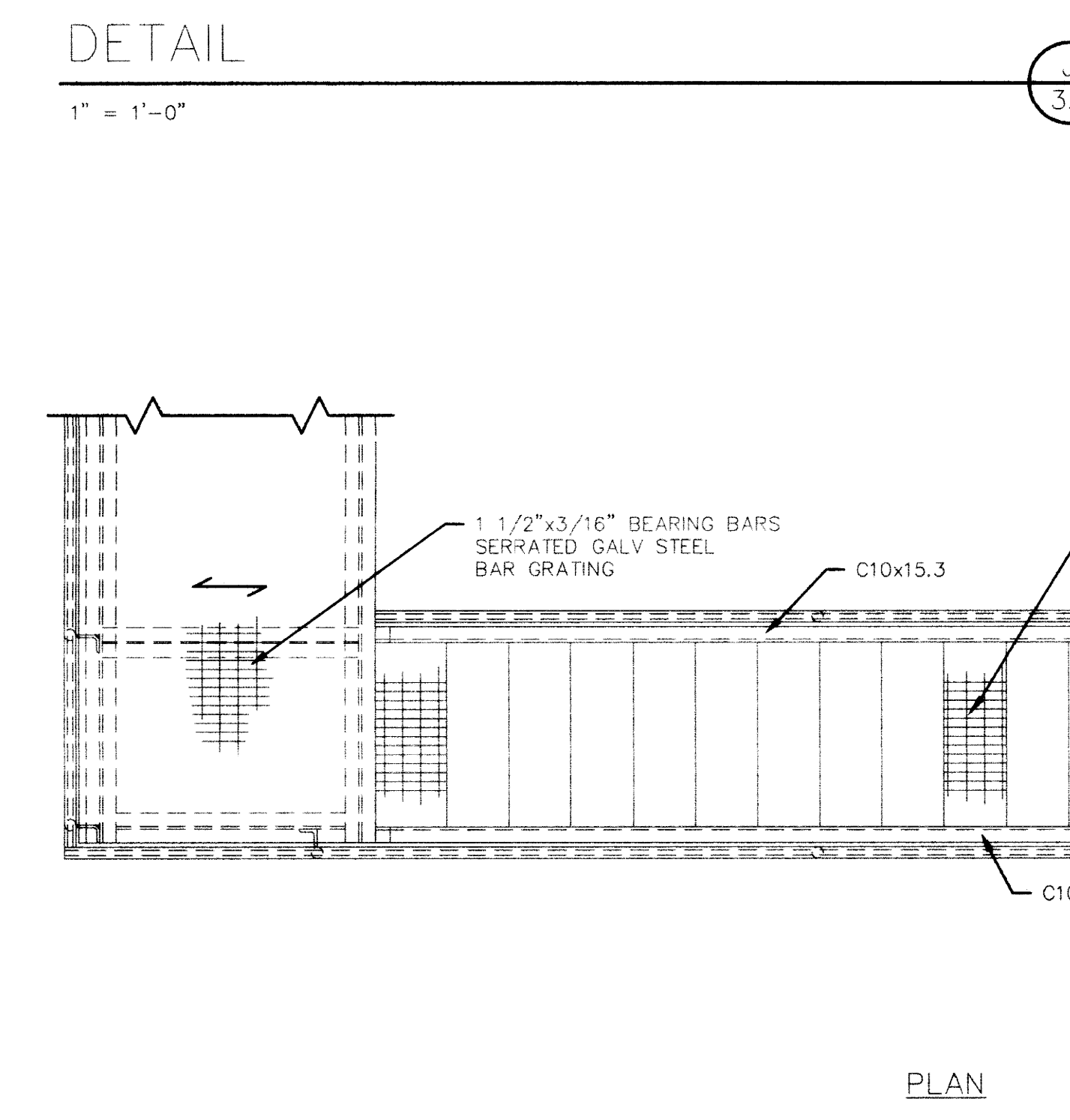
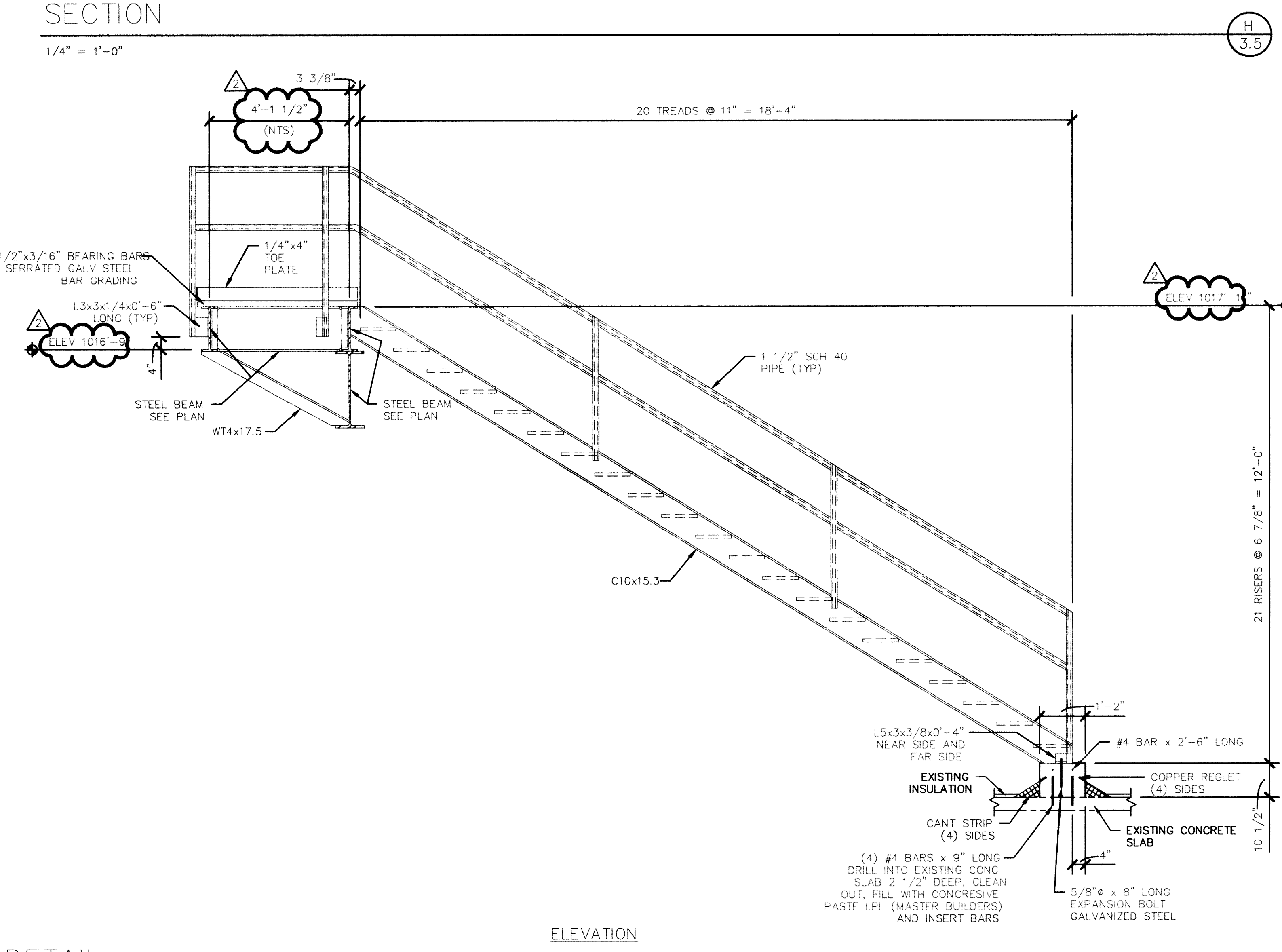
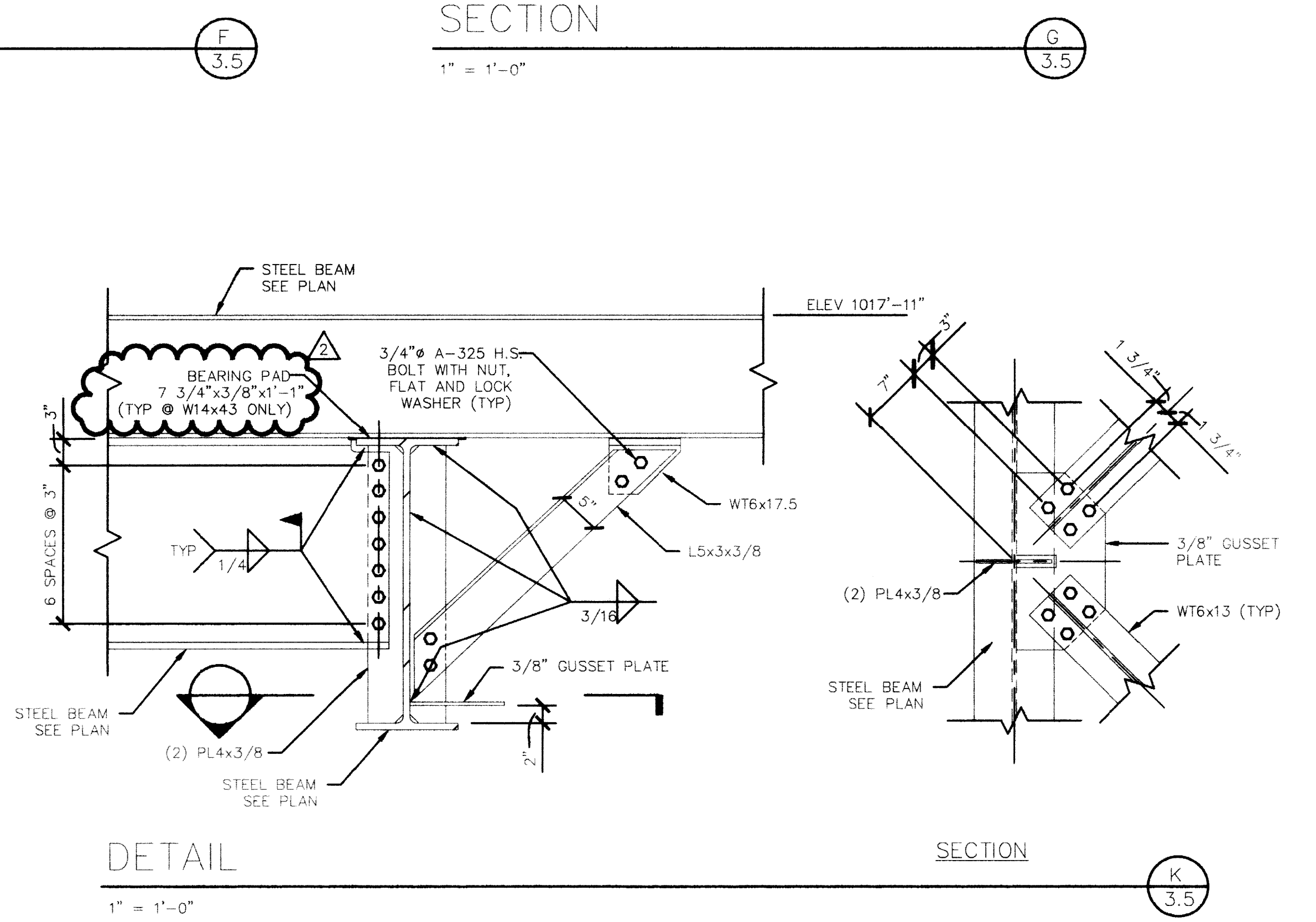
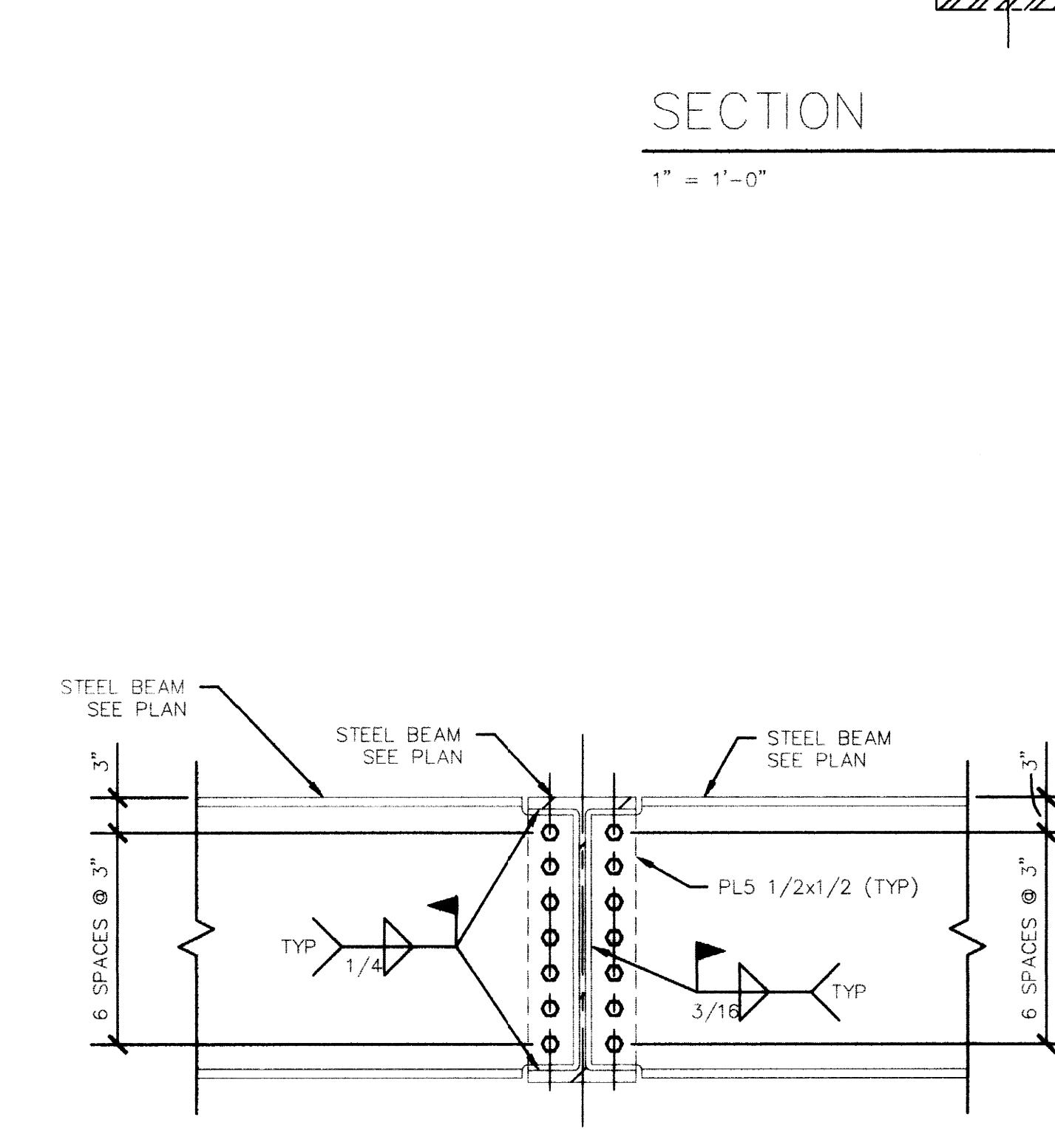
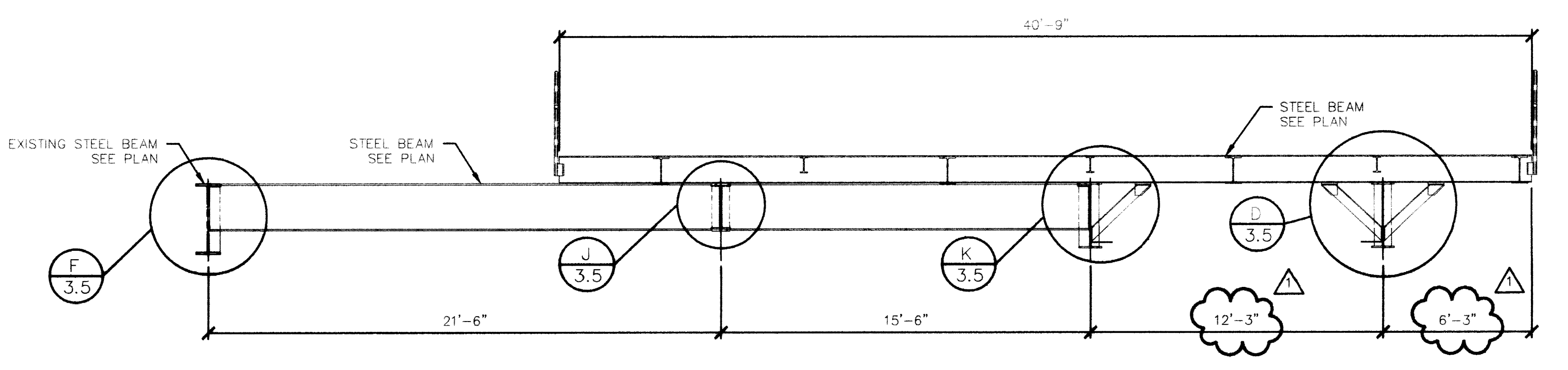
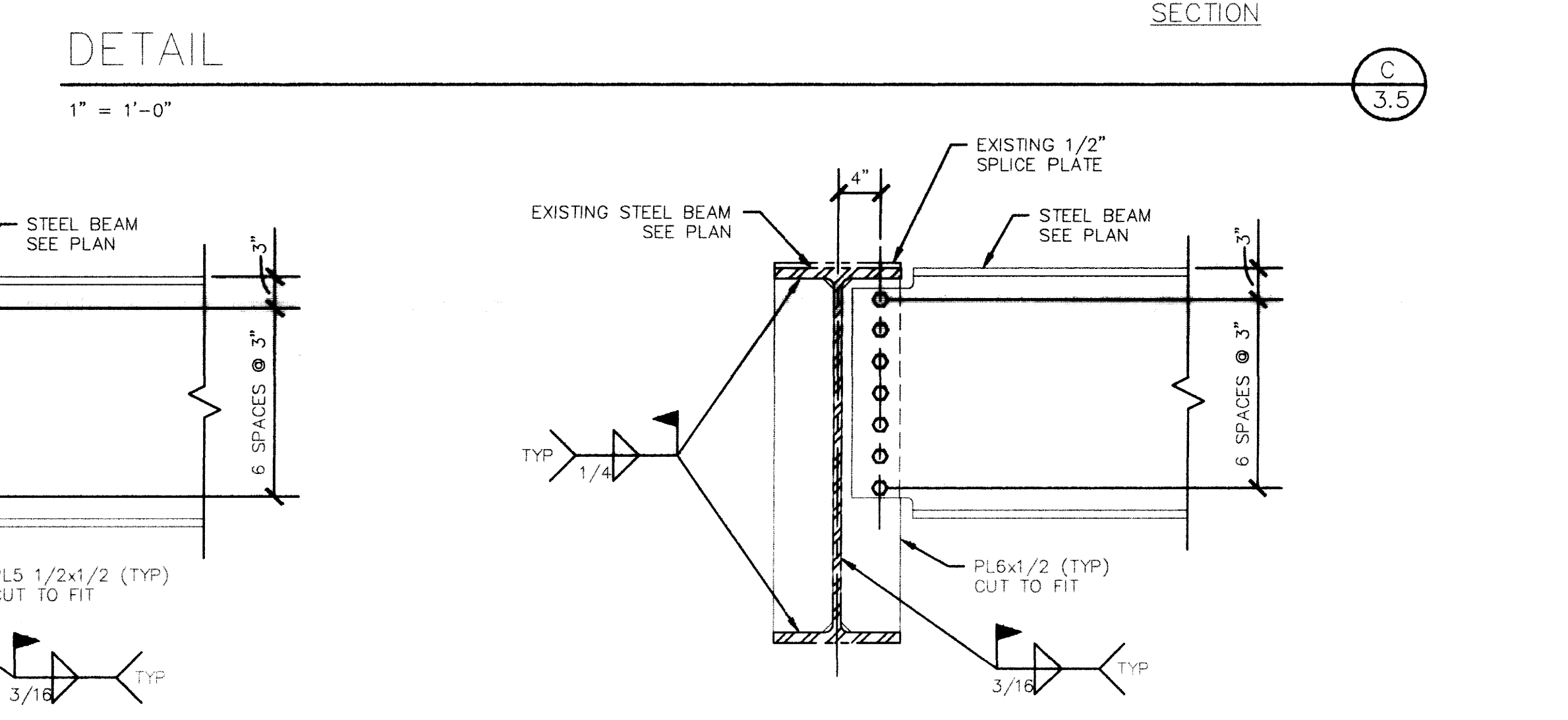
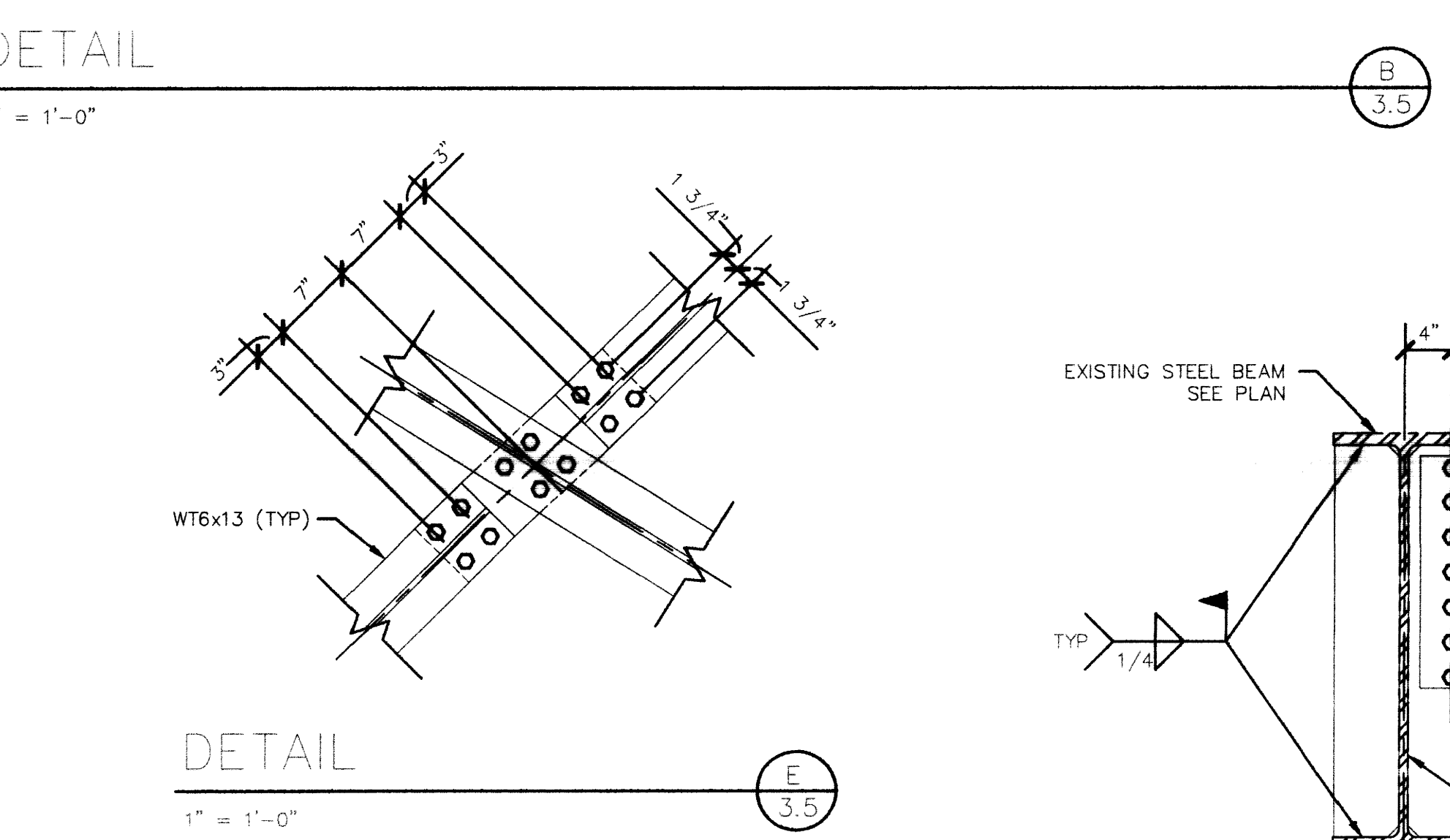
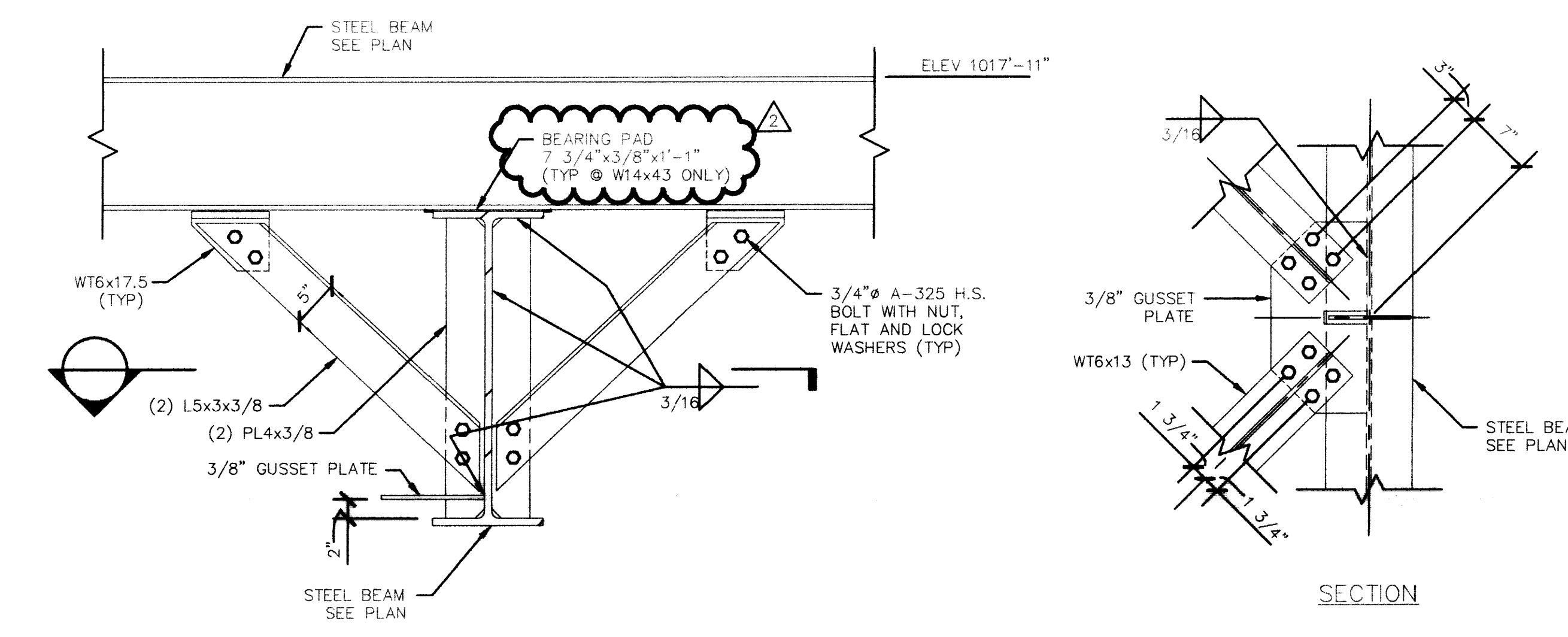
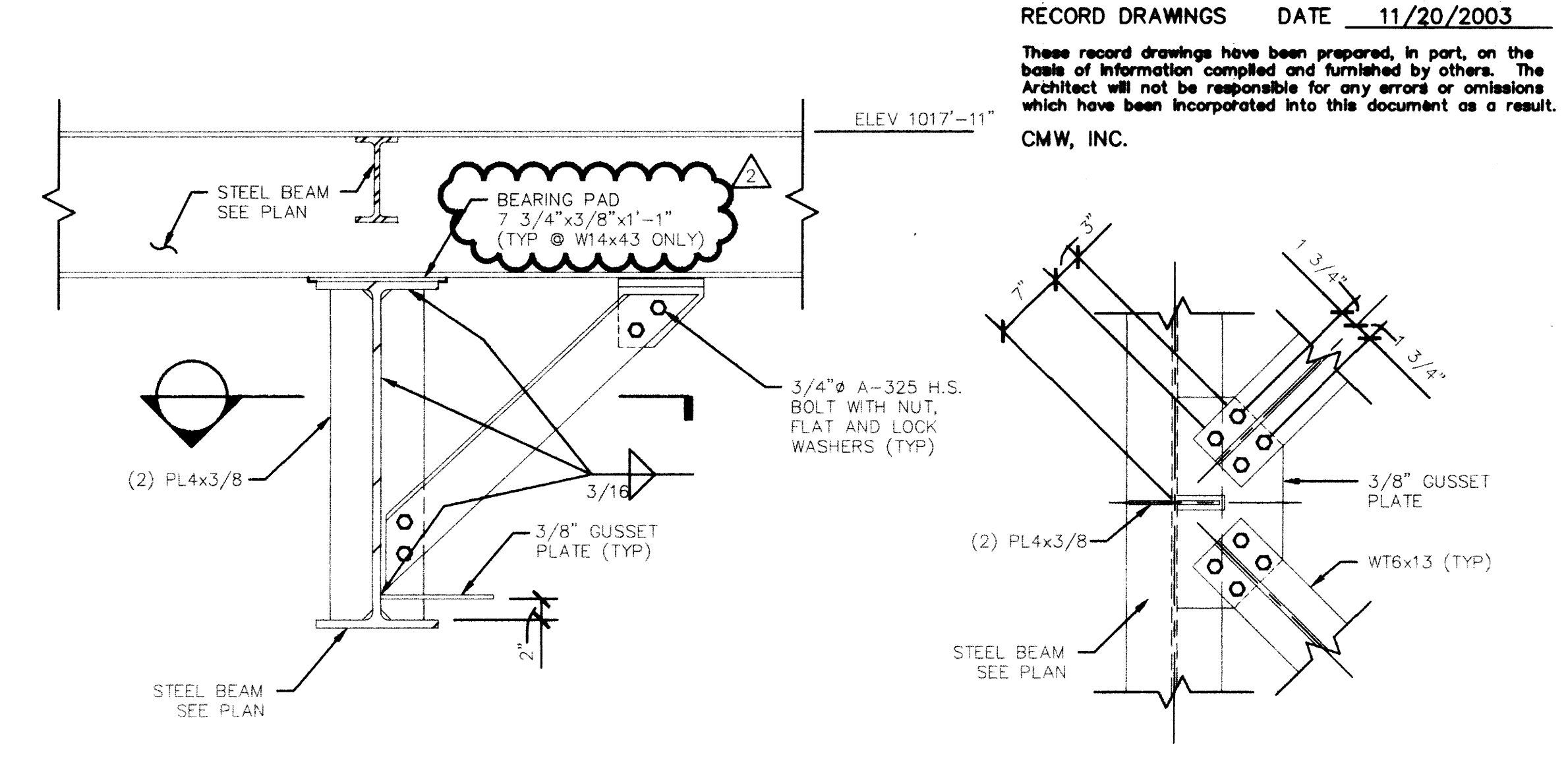
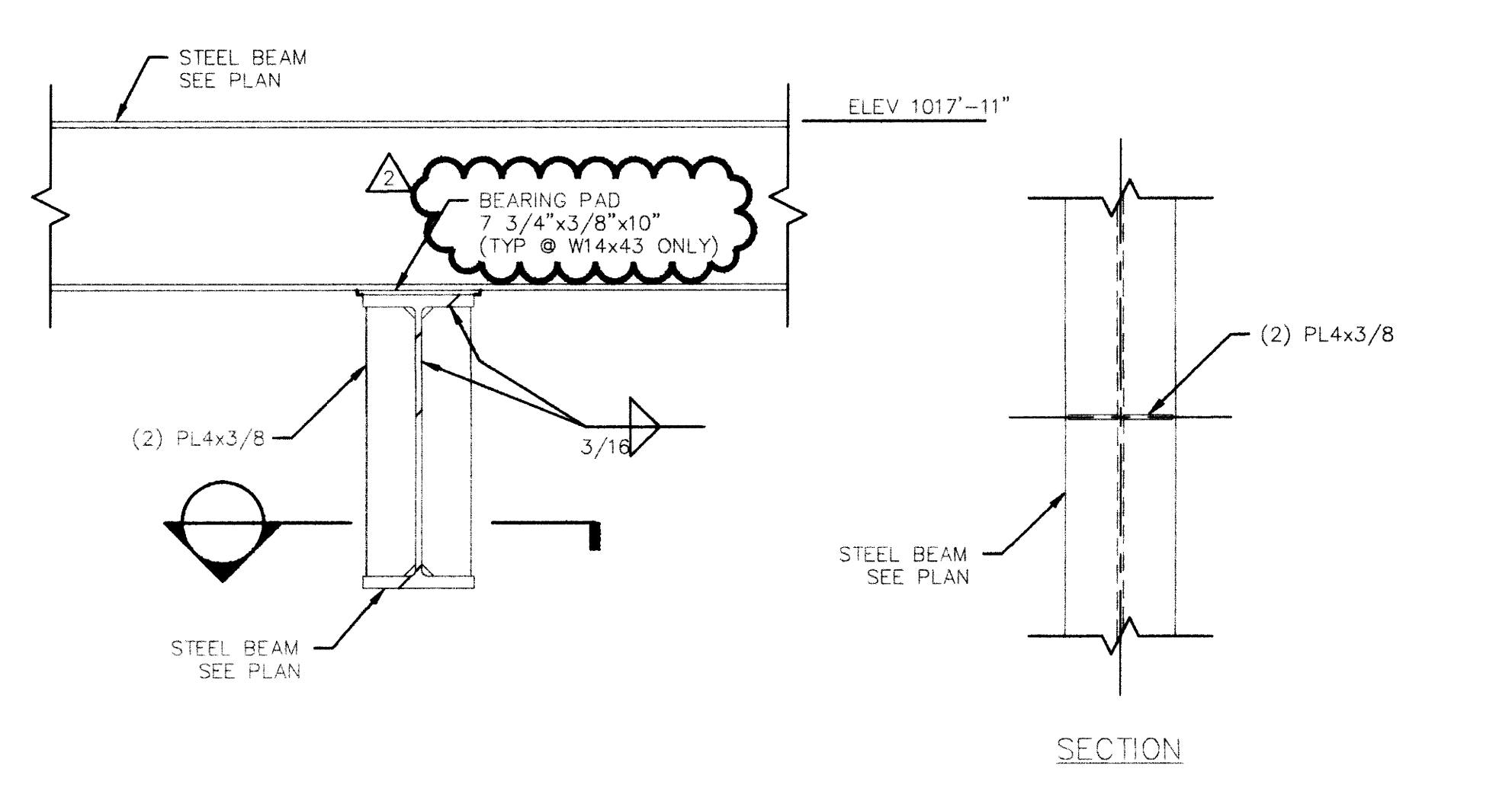
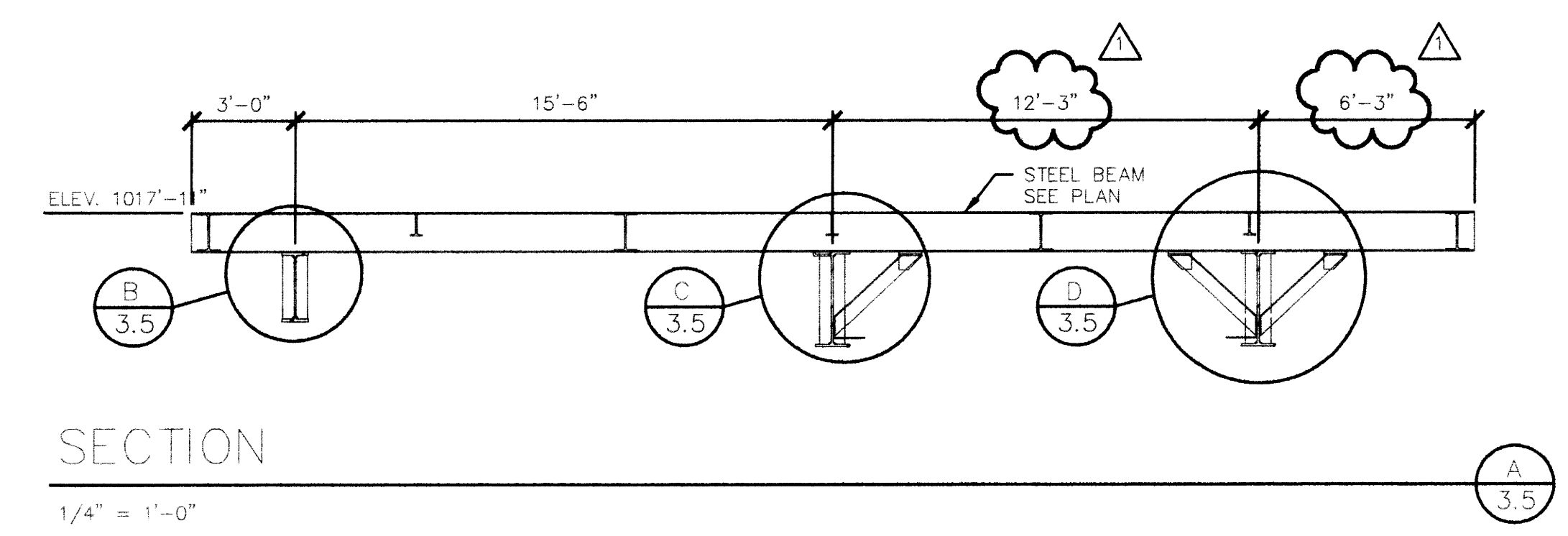
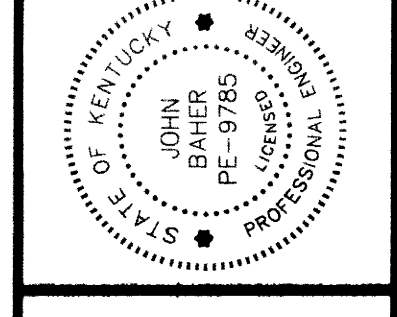
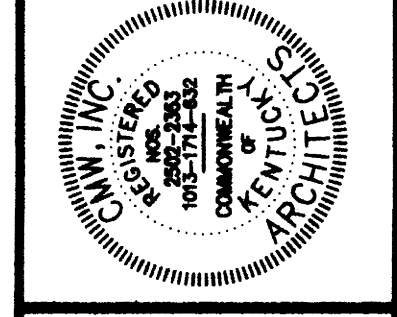
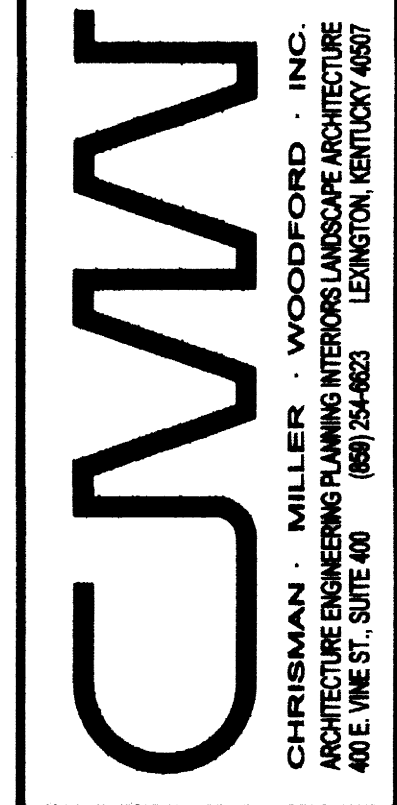


SECTIONS AND DETAILS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: HDR  
CHECKED BY: JB  
REVISED BY: JB  
DATE: 04-23-01  
08-21-01  
SHEET NUMBER  
3.4  
PROJECT NUMBER  
90024.02  
UNIVERSITY OF KENTUCKY  
SHEET  
AUG. 22, 2001 - 11:07

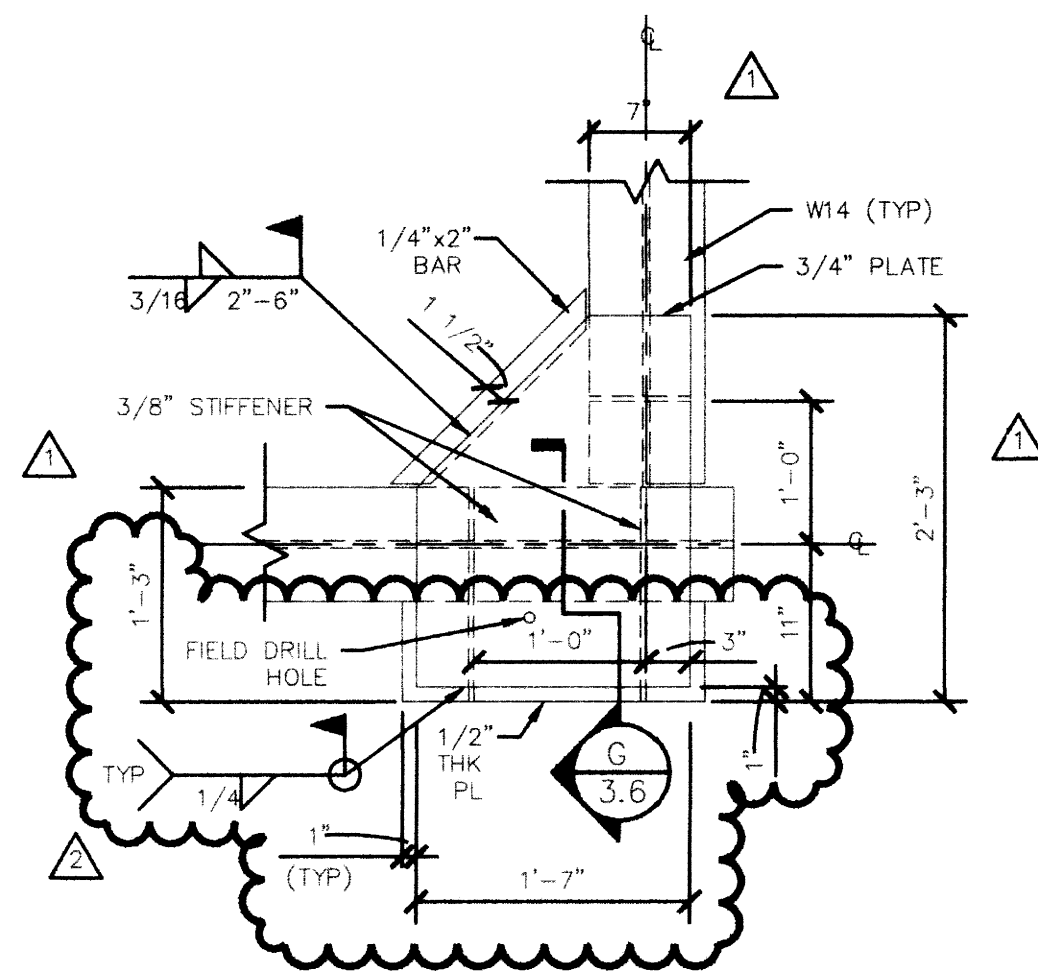
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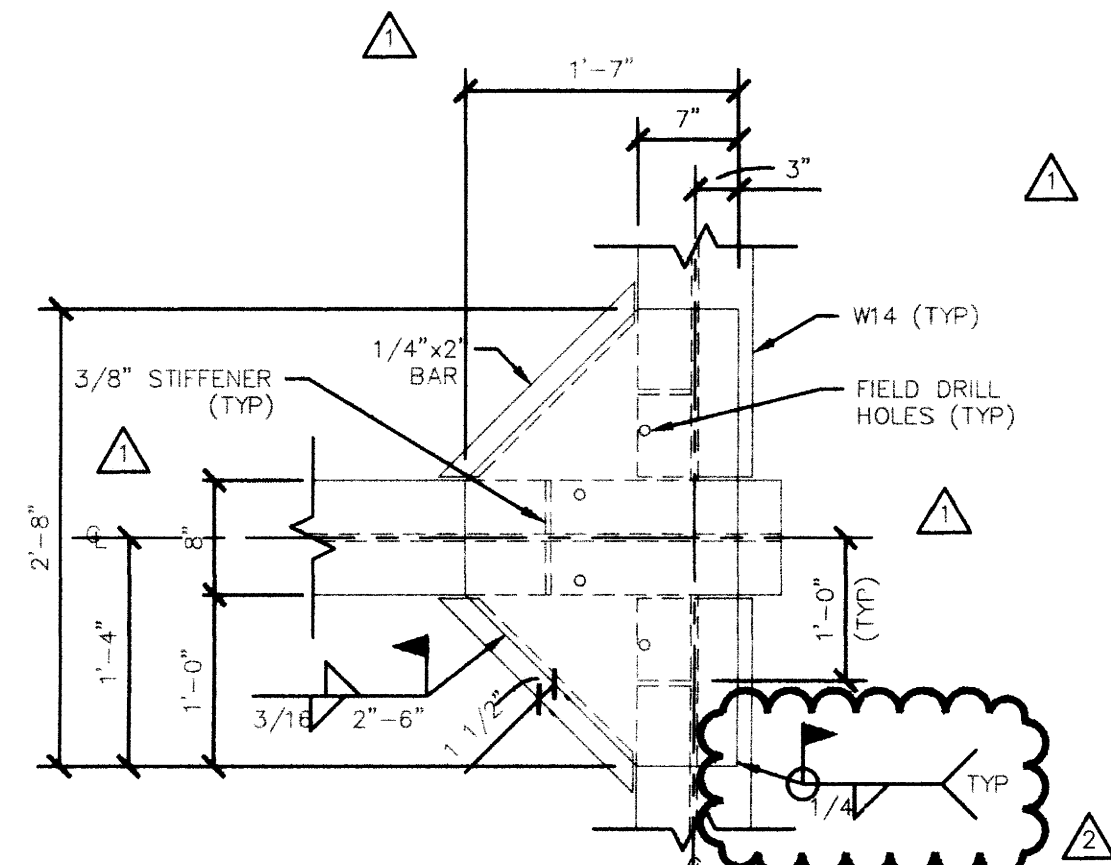
SECTIONS AND DETAILS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

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DATE: DECEMBER 2000  
DRAWN BY: HDP  
CHECKED BY: JS  
REVISED: 4  
DATE 04-23-01 06-1  
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PROJECT NUMBER: 99024 02  
UNIFORM CONTRACT 1305-1  
SHEET  
MAY 15, 2001 - 11043  
C-1 25470

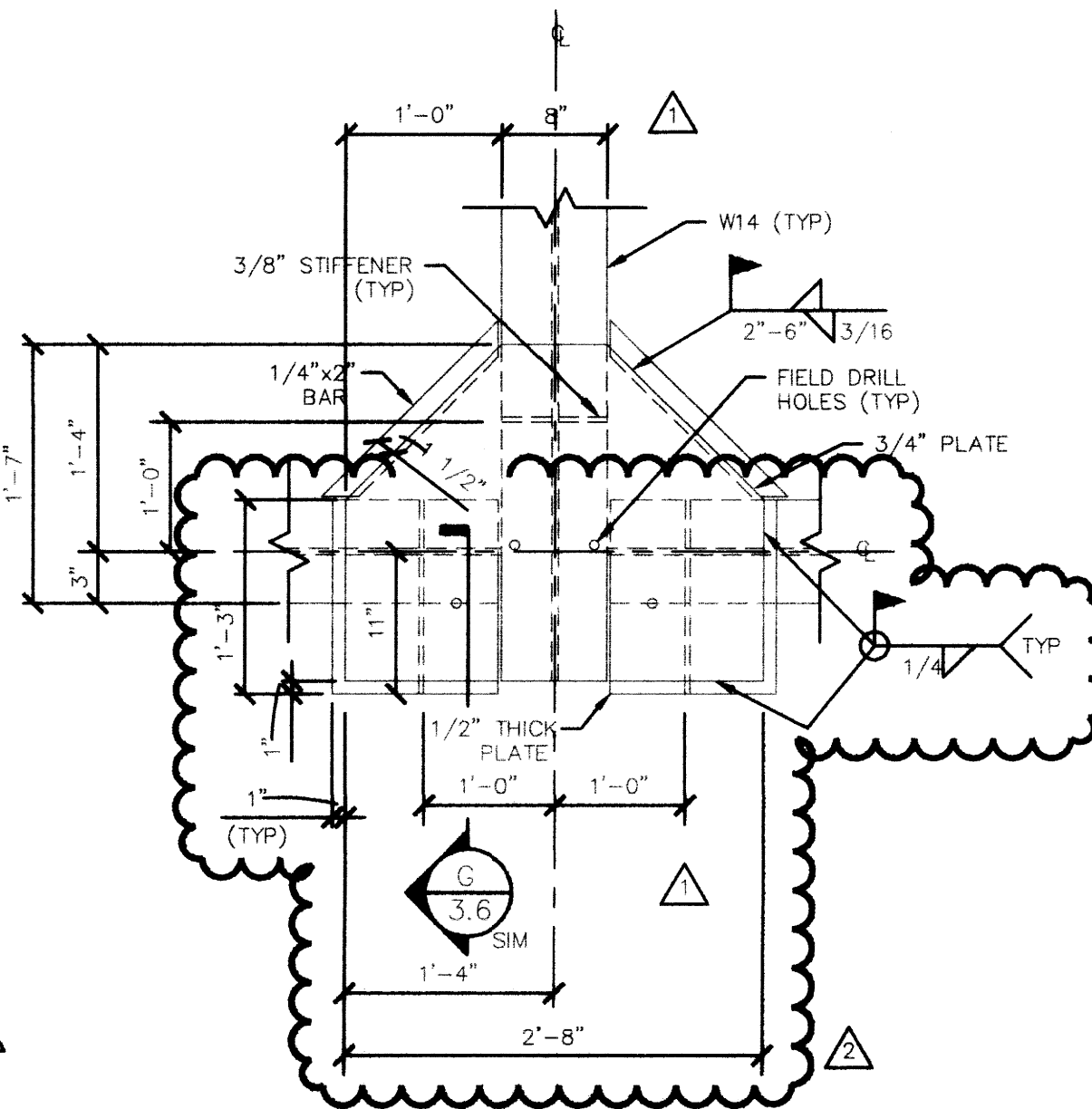


DETAIL  
NOT TO SCALE  
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3.6

(THIS DETAIL WAS ELIMINATED)

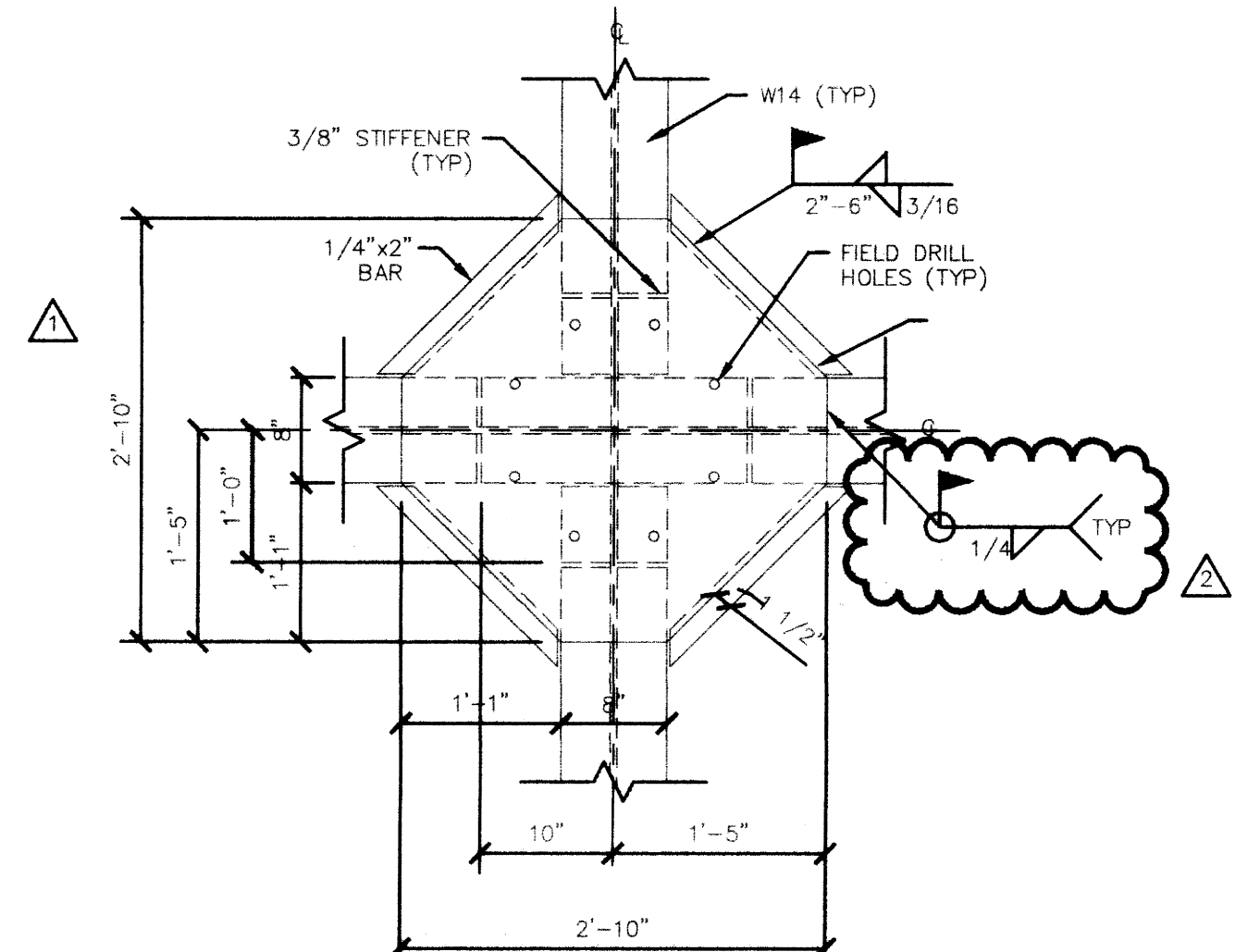


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3.6

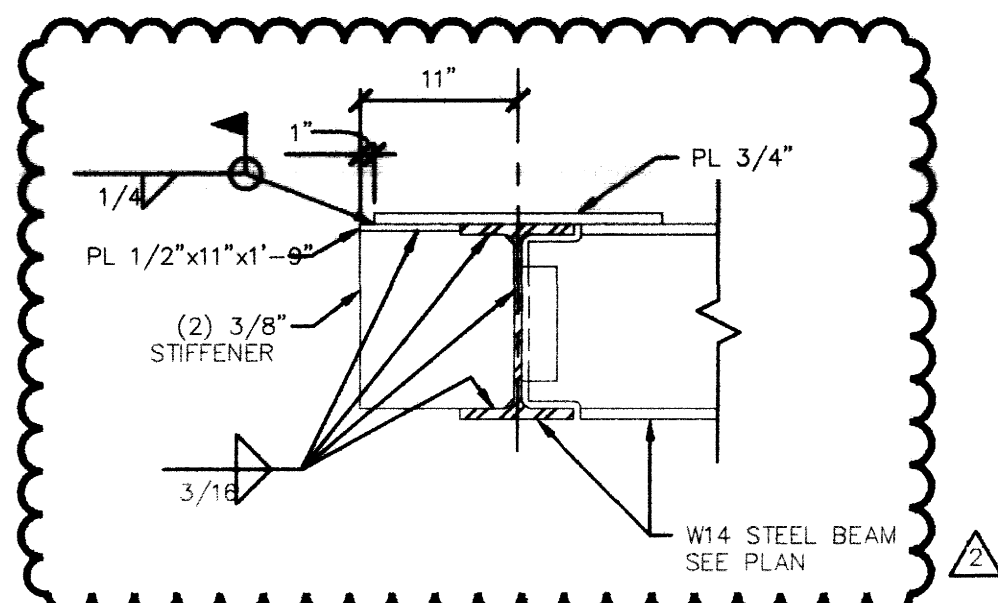


DETAIL  
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D  
3.6

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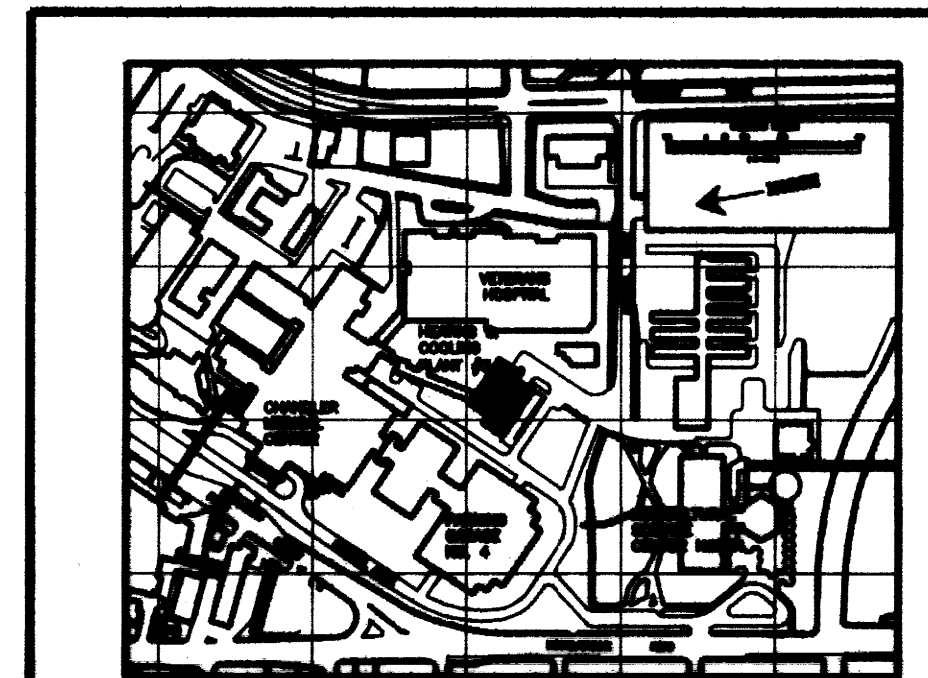


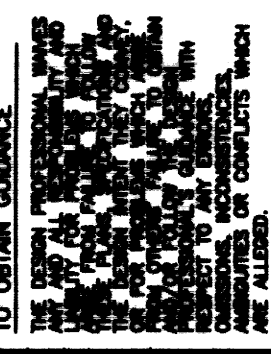
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NOT TO SCALE  
F  
3.6



SECTION  
1\"/>

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**FOUNDATION LEGEND**

- EX = EXISTING CONSTRUCTION
- (968.33') = TOP OF FOOTING ELEVATION
- (968.33') = TOP OF FOOTING / SLAB SPOT ELEVATION
- SLOPE SLAB EVENLY BETWEEN POINTS UNLESS NOTED OTHERWISE

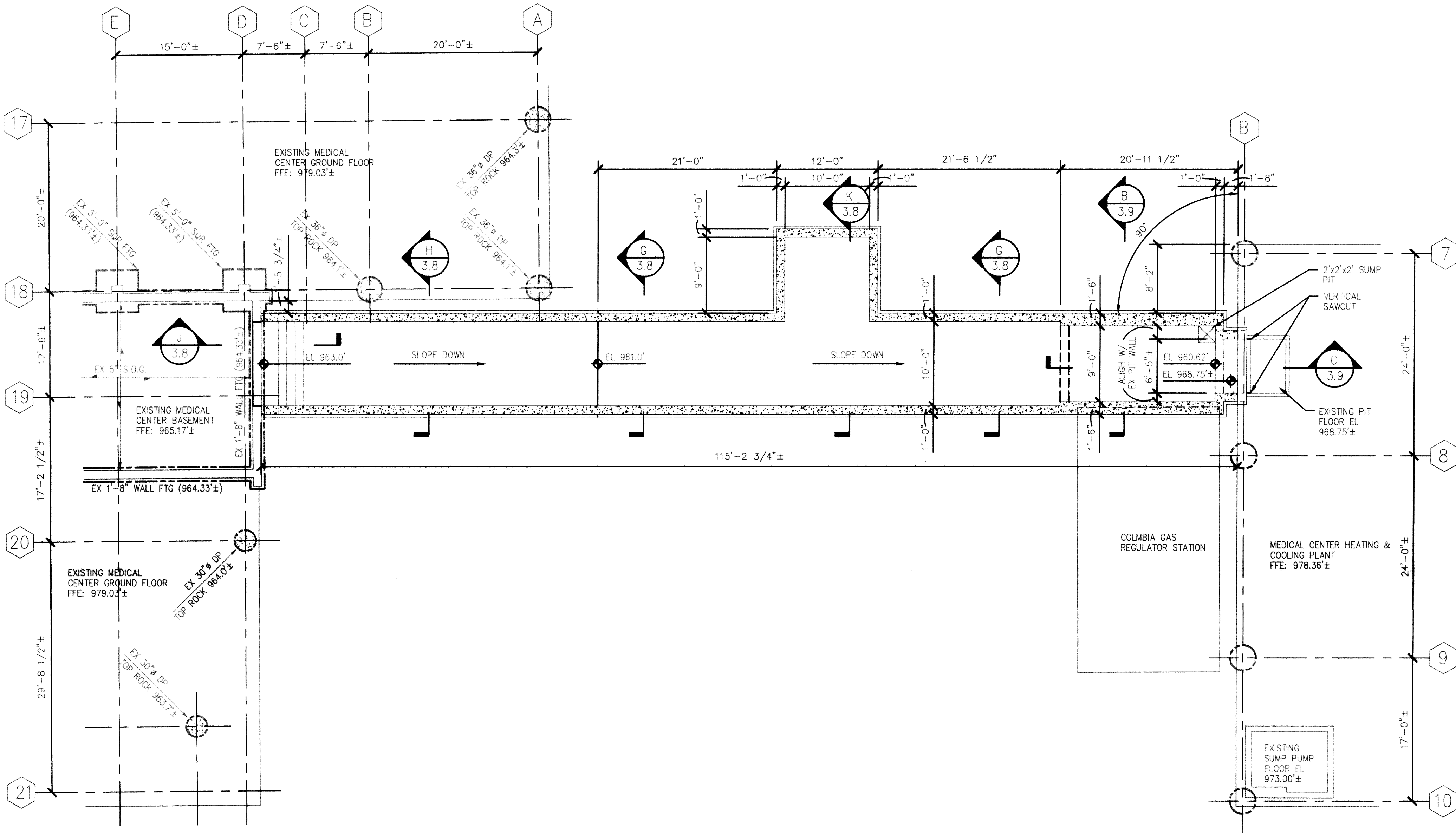
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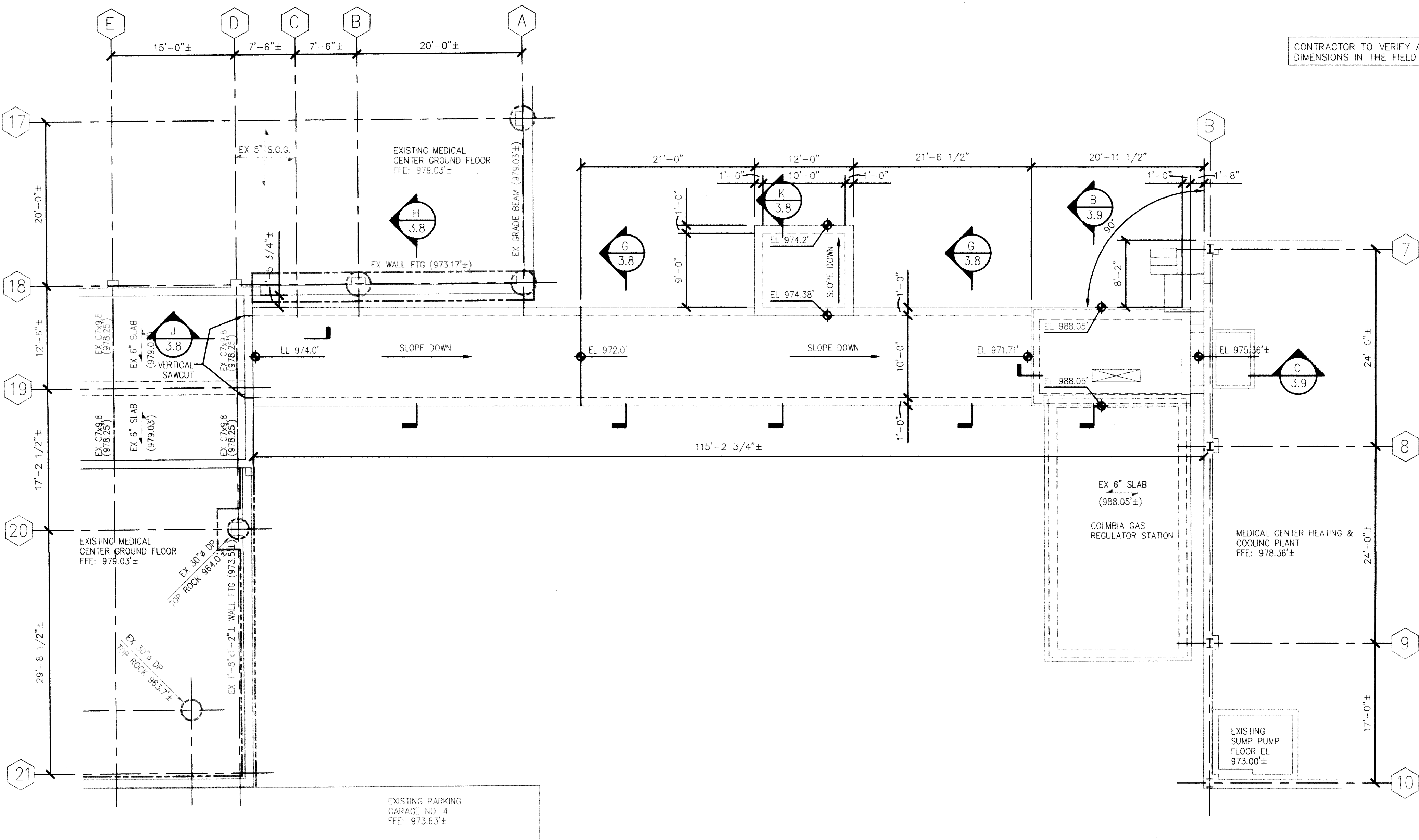
**TUNNEL NOTES**

- DESIGN LIVE LOADS**
- TUNNEL LIVE LOAD
- |                                   |               |
|-----------------------------------|---------------|
| HIGHWAY LOADING                   | AASHTO HS20   |
| ROOF SNOW LOAD                    | 20 PSF MIN    |
| GROUND SNOW LOAD                  | Pg = 15 PSF   |
| SNOW EXPOSURE FACTOR              | Ce = 0.7      |
| IMPORTANCE FACTOR                 | Is = 1.0      |
| FLAT-ROOF SNOW LOAD (Pf = CelsPg) | Pf = 10.5 PSF |
- WIND LOAD**
- |   |            |
|---|------------|
| PRIMARY FRAME AND COMPONENTS GREATER THAN 700 SQ. FT. | 70 MPH     |
| BASIC WIND SPEED                                      | EXPOSURE B |
| EXPOSURE CATEGORY                                     | Is = 1.0   |
| IMPORTANCE FACTOR                                     | Iw = 1.0   |
| WIND DESIGN PRESSURE (P)                              | PRESSURE   |
| HEIGHT ABOVE GROUND                                   | 0-15'      |
- EARTHQUAKE DESIGN DATA**
- |                                    |                                    |
|------------------------------------|------------------------------------|
| BASIC STRUCTURAL SYSTEM            | LOADBEARING WALL SYSTEM            |
| SEISMIC RESISTING SYSTEM           | REINFORCED CONCRETE SHEAR WALLS    |
| PEAK VELOCITY-RELATED ACCELERATION | Av = 0.07                          |
| PEAK ACCELERATION                  | Ag = 0.05                          |
| SEISMIC HAZARD EXPOSURE GROUP      | GROUP                              |
| SEISMIC PERFORMANCE CATEGORY       | CATEGORY B                         |
| SOIL-PROFILE SITE COEFFICIENT      | S = 1.0                            |
| RESPONSE MODIFICATION FACTOR       | R = 4 1/2                          |
| DEFLECTION AMPLIFICATION FACTOR    | Cd = 4                             |
| METHOD OF ANALYSIS                 | EQUIVALENT LATERAL FORCE PROCEDURE |
- DESIGN STRESSES**
- |   |                             |
|---|-----------------------------|
| CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS: | f <sub>c</sub> = 4,000 PSI  |
| TUNNEL FOOTINGS, WALLS, AND ELEVATED SLABS                          | f <sub>y</sub> = 60,000 PSI |
| REINFORCING BARS (ASTM A615 GRADE 60)                               |                             |



**TUNNEL FOUNDATION PLAN**

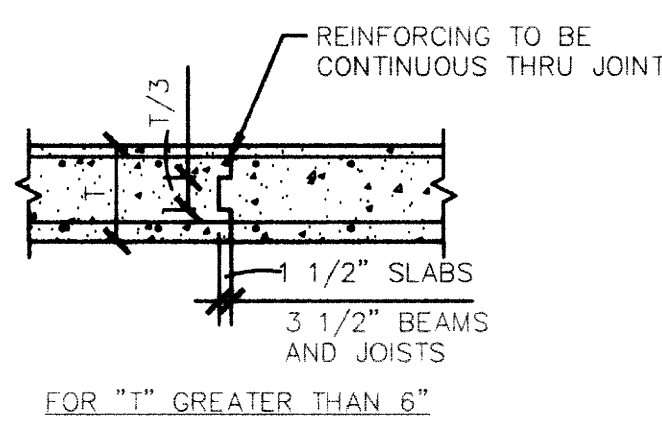
1/8" = 1'-0"



**TUNNEL ROOF PLAN**

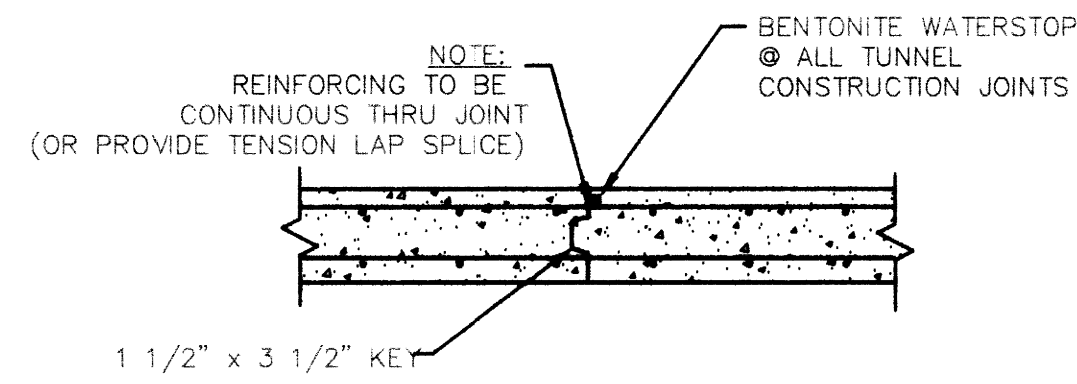
1/8" = 1'-0"

- GENERAL**
- ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN OBTAINED FROM AVAILABLE SOURCES AND ARE NOT GUARANTEED TO BE TRUE AND EXACT. THE CONTRACTOR SHALL VERIFY THESE DIMENSIONS AND ELEVATIONS BY ACTUAL FIELD MEASUREMENTS PRIOR TO FABRICATION OF ANY MATERIALS AND START OF WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
  - ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
  - DO NOT SCALE DRAWINGS.
  - THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND IS THEREFORE DEPENDANT UPON DIAPHRAGM ACTION OF THE ROOF SLAB AND ATTACHMENT TO THE SHEAR WALLS FOR STABILITY AND FOR RESISTANCE TO WIND AND SEISMIC FORCES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY BRACING REQUIRED TO PROPERLY CONSTRUCT THE BUILDING UNTIL THESE ELEMENTS ARE COMPLETE AND CAPABLE OF PROVIDING THIS SUPPORT.
  - SHOP DRAWINGS MUST BE CHECKED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION. DO NOT BACKFILL AGAINST TUNNEL STRUCTURE UNTIL ROOF SLAB IS IN PLACE AND ALL MEMBERS HAVE REACHED THE SPECIFIED CONCRETE COMPRESSIVE STRENGTH.
  - BACKFILL TUNNEL BY ALTERNATELY PLACING BACKFILL ON EACH SIDE SO THAT THE HEIGHT OF BACKFILL DOES NOT DIFFER BY MORE THAN 2'-6" FROM THE OTHER SIDE.
- FOUNDATION CONSTRUCTION**
- ELEVATIONS GIVEN ARE TO THE TOP OF FOOTINGS.
  - ALL FOOTINGS MUST BE SUPPORTED ON UNDISTURBED SOIL CAPABLE OF SUPPORTING DESIGN LOADS WITHOUT APPRECIABLE SETTLEMENT.
  - EXISTING FOUNDATIONS:
    - A. EXISTING FOUNDATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. EXACT CONDITION MUST BE VERIFIED AT TIME OF CONSTRUCTION.
  - LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION. COORDINATE WITH UTILITY COMPANIES FOR ANY SHUT-OFF REQUIREMENTS OF STILL ACTIVE LINES.
  - WHEN EXCAVATIONS APPROACH THE GROUND WATER LEVEL, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2'-0" BELOW THE EXCAVATION.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY A QUALIFIED FIRM TO ENGINEER AND CONSTRUCT A JET GROUT / SOIL NAIL SOIL STABILIZATION AND UNDERPINNING SYSTEM FOR ALL EXISTING WALLS AND FOUNDATIONS UNCOVERED DURING THE EXCAVATION AND CONSTRUCTION OF THE UTILITY TUNNEL. ALTERNATE MEANS OF STABILIZING / UNDERPINNING MAY BE PROPOSED TO, BUT ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
- CONCRETE CONSTRUCTION**
- ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 AND ACI DETAILING MANUAL, EXCEPT THAT CONSTRUCTION AND REMOVAL OF FORMS AND SHORING SHALL BE INSPECTED BY THE CONTRACTOR'S ENGINEER.
  - FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION.
  - PROVIDE PLASTIC, PLASTIC-COATED (NOT PLASTIC-TIPPED) OR STAINLESS STEEL CHAIRS IN ALL CONCRETE EXPOSED TO VIEW IN COMPLETED STRUCTURE.
  - PROVIDE PIPE SLEEVES AND INSERTS IN CONCRETE WORK WHERE REQUIRED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - CONSTRUCTION JOINTS SHALL BE POSITIONED SO AS NOT TO CHANGE THE STRUCTURAL DESIGN REQUIREMENTS. WALLS AND FRAMED SLABS SHALL HAVE CONSTRUCTION JOINTS SO THAT THE MINIMUM LENGTH OF POUR IS 40'-0".
  - WELDING OF REINFORCING BARS (INCLUDING TACK WELDING) IS NOT PERMITTED.
  - PROVIDE HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS IN FRAMED SLABS, WALLS, AND FOOTINGS; MINIMUM 1 1/2" DEEP WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH.
  - ALL EXPOSED CORNERS OF CONCRETE BEAMS AND WALLS ARE TO BE CHAMFERED 45 DEGREES. MINIMUM CHAMFER TO BE 1/2".
  - BEND ALL HORIZONTAL WALL AND FOOTING BARS 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH 2'-0" LAP.
  - PROVIDE FOUNDATION DOWELS FOR ALL WALLS, PIERS, AND COLUMNS SAME SIZE AND SPACING AS VERTICAL STEEL.
  - SPLICING:
    - A. LAP ALL COMPRESSION SPLICES 30 BAR DIAMETERS OF THE LARGER BAR.
    - B. LAP ALL TENSION SPLICES IN ACCORDANCE WITH THE FOLLOWING TABLE. MODIFY LENGTHS AS NOTED:
- | BAR SIZE | CONCRETE COMPRESSIVE STRENGTH |           | 1. INCREASE SPLICE LENGTH BY THE FOLLOWING:                    |      |
|----------|-------------------------------|-----------|--|------|
|          | 4,000 PSI                     | 5,000 PSI | 2. NOTE: INCREASED LENGTHS ARE ACCUMULATIVE                    |      |
| #3       | 19"                           | 25"       | 1. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW | +30% |
| #4       | 25"                           | 31"       | 2. BAR SPACING LESS THAN 2 BAR DIAMETERS                       | +50% |
| #5       | 31"                           | 37"       |  |      |
| #6       | 37"                           | 43"       |  |      |
| #7       | 43"                           | 49"       |  |      |
| #8       | 49"                           | 55"       |  |      |
- CONCRETE PROTECTION FOR REINFORCEMENT:**
- |  |       |        |
|--|-------|--------|
| A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH    | COVER | 3"     |
| B. CONCRETE EXPOSED TO EARTH OR WEATHER                      |       | 2"     |
| NO. 6 THROUGH NO. 18 BARS                                    |       | 2"     |
| NO. 5 BAR, W31 OR D31 WIRE AND SMALLER                       |       | 1 1/2" |
| C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND |       | 1 1/2" |
| NO. 3 THROUGH NO. 18 BARS                                    |       | 1 1/2" |
- ROOF, FLOOR, OR WALL OPENINGS**
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
  - SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.



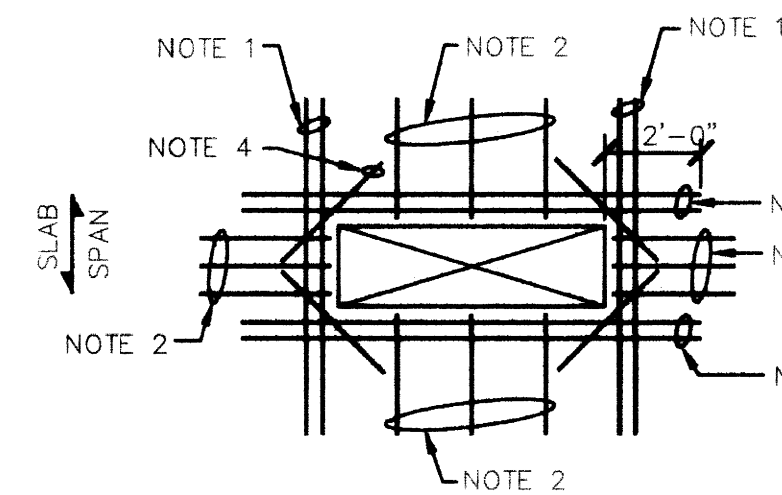
TYPICAL FRAMED FLOOR AND ROOF CONSTRUCTION JOINTS  
NOT TO SCALE

A  
3.8



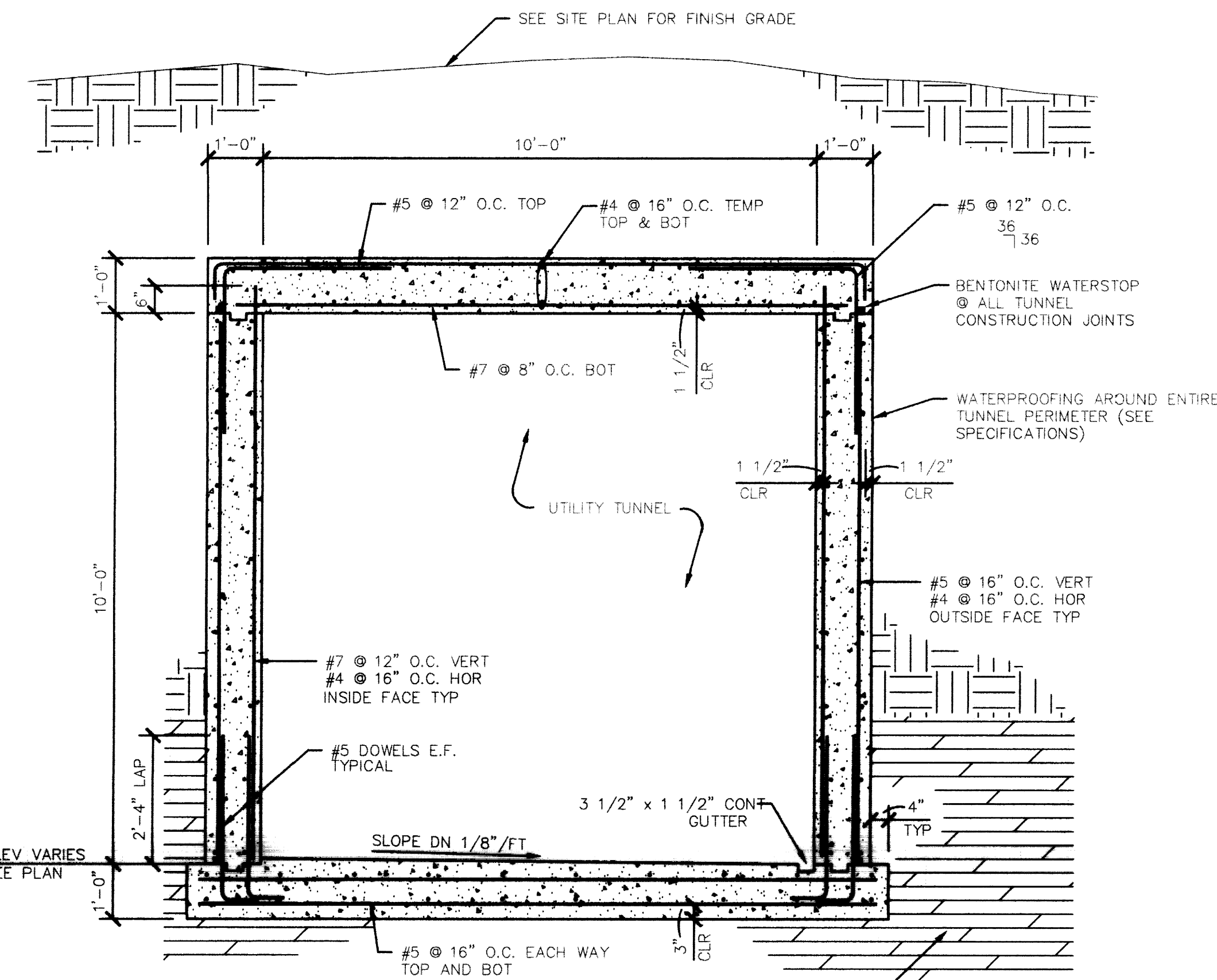
WALL CONSTRUCTION JOINT DETAIL  
NOT TO SCALE

B  
3.8



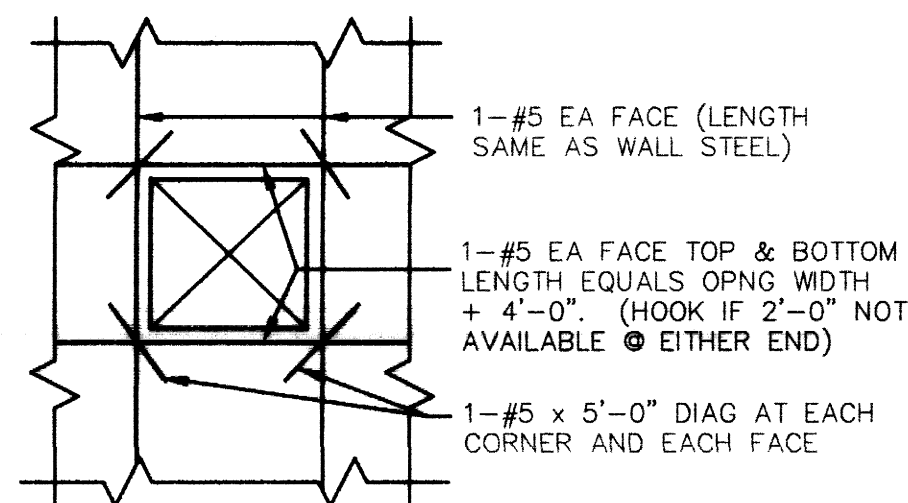
REINFORCING AT ROOF OPENINGS  
NOT TO SCALE (SLAB CONSTRUCTION)

C  
3.8



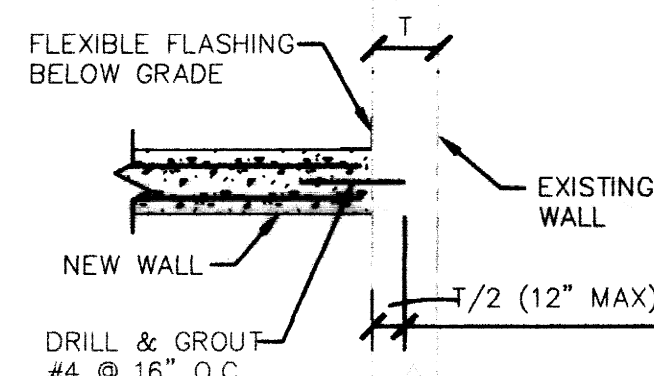
SECTION  
1/2" = 1'-0"

G  
3.8



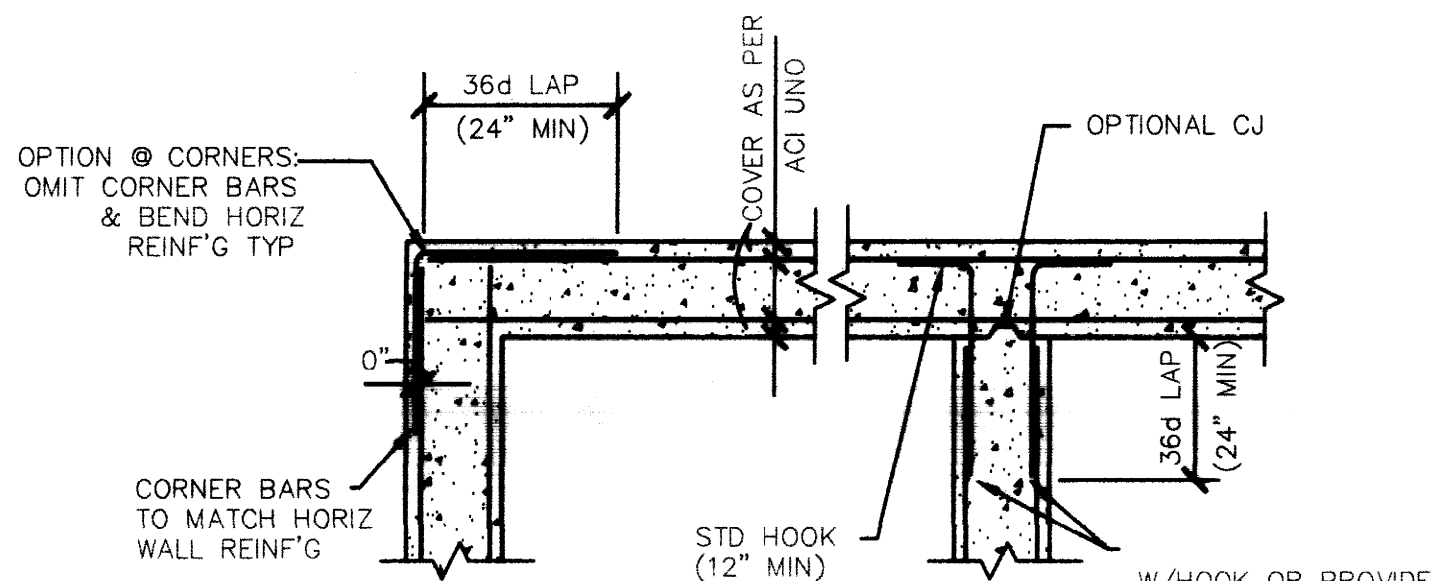
REINFORCING AT WALL OPENINGS  
NOT TO SCALE

D  
3.8



CONNECTION DETAIL NEW CONCRETE WALL TO EXISTING  
NOT TO SCALE

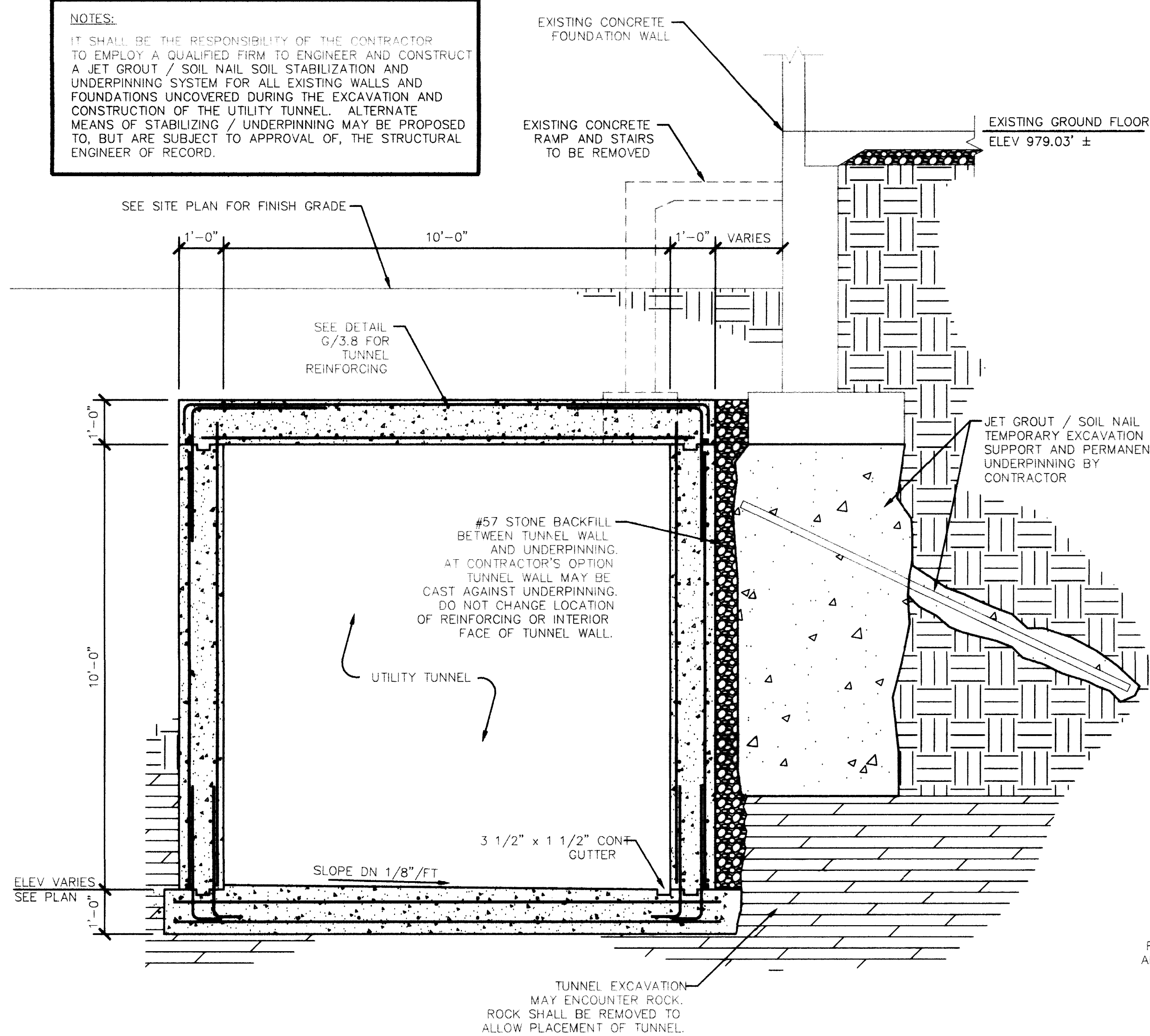
E  
3.8



CONCRETE WALL REINFORCING DETAIL  
NOT TO SCALE (2 LAYERS OF WALL REINFORCING)

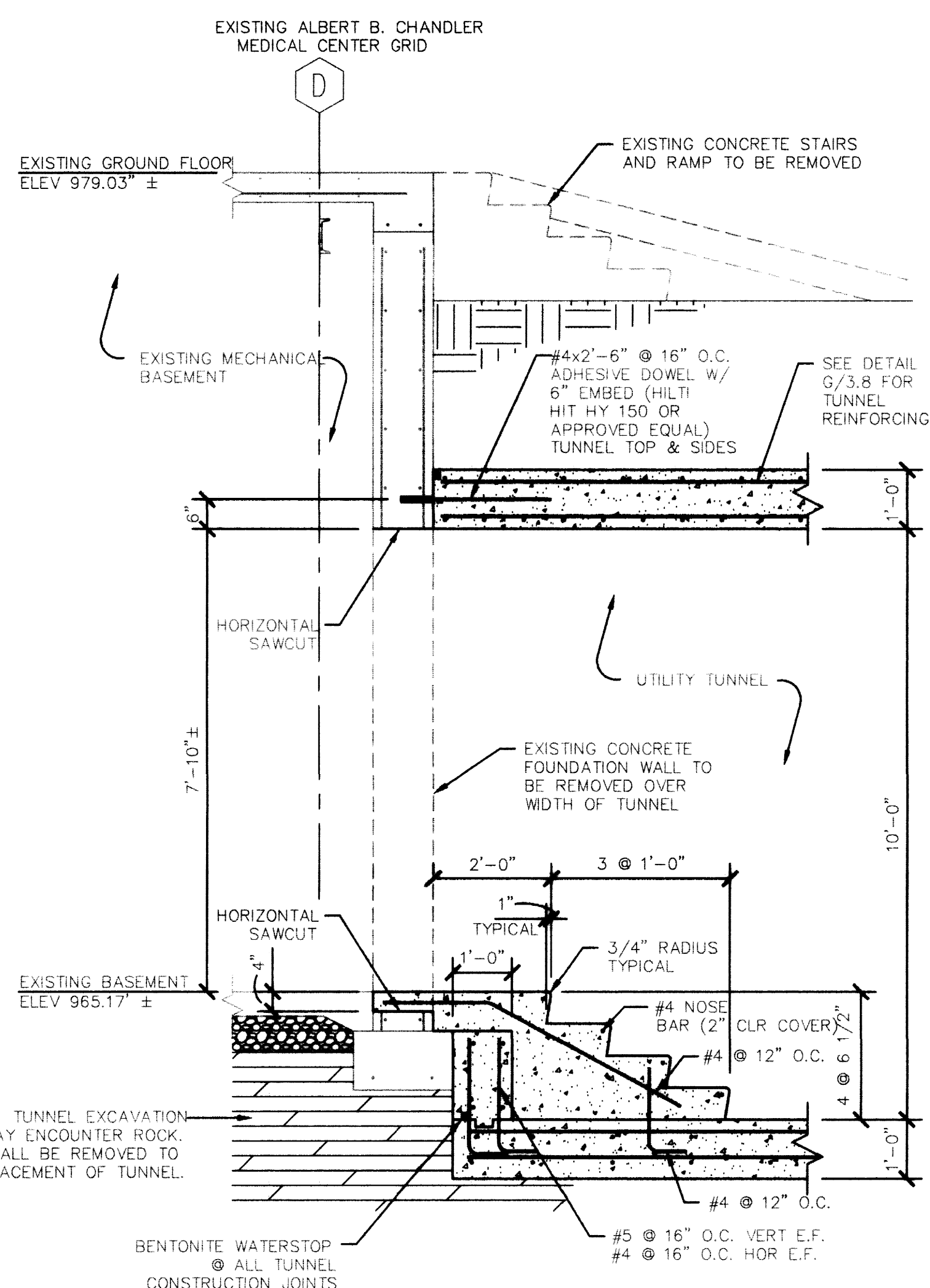
F  
3.8

NOTES:  
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY A QUALIFIED FIRM TO ENGINEER AND CONSTRUCT A JET GROUT / SOIL NAIL SOIL STABILIZATION AND UNDERPINNING SYSTEM FOR ALL EXISTING WALLS AND FOUNDATIONS UNCOVERED DURING THE EXCAVATION AND CONSTRUCTION OF THE UTILITY TUNNEL. ALTERNATE MEANS OF STABILIZING / UNDERPINNING MAY BE PROPOSED TO, BUT ARE SUBJECT TO APPROVAL OF, THE STRUCTURAL ENGINEER OF RECORD.



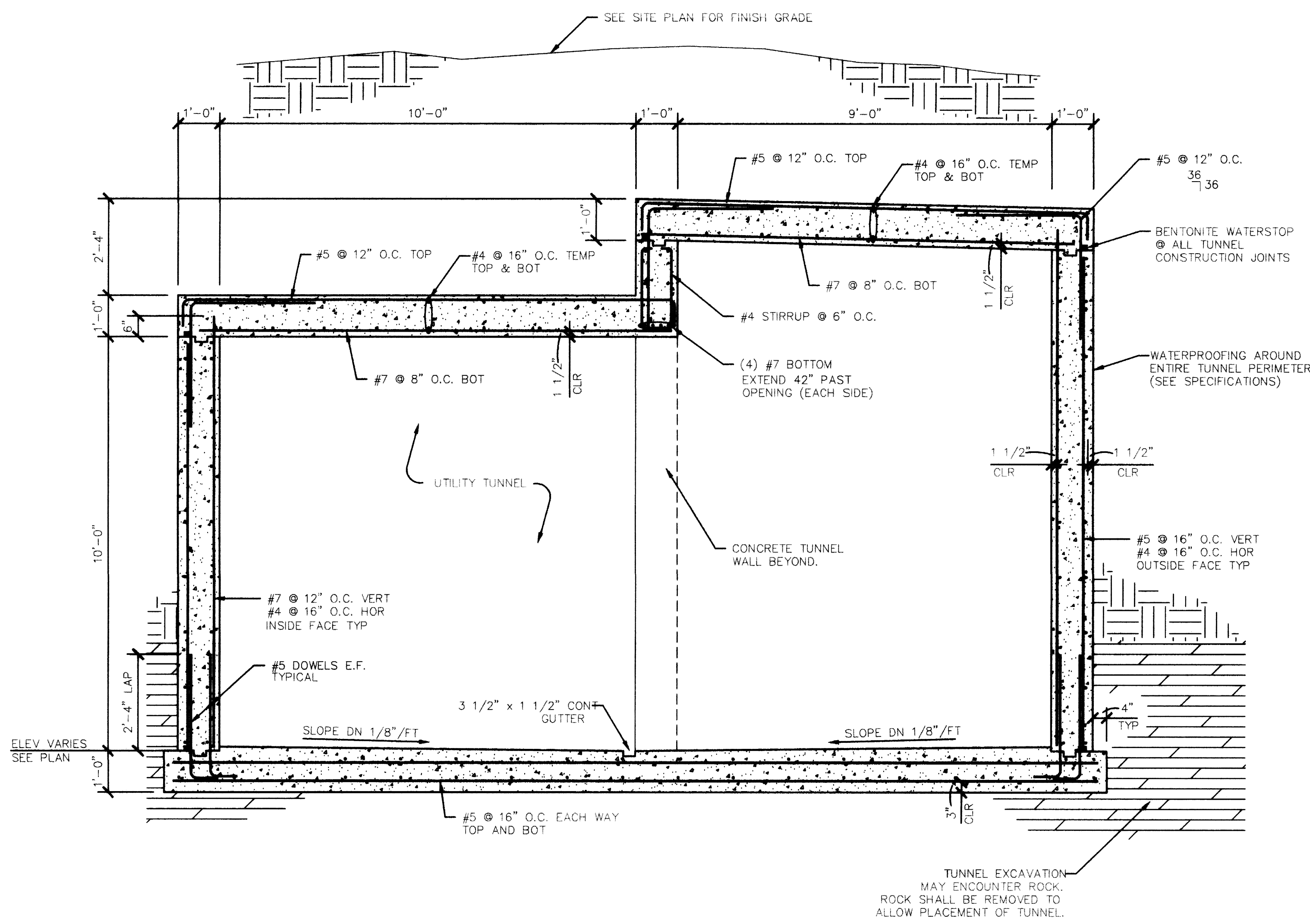
SECTION  
1/2" = 1'-0"

H  
3.8



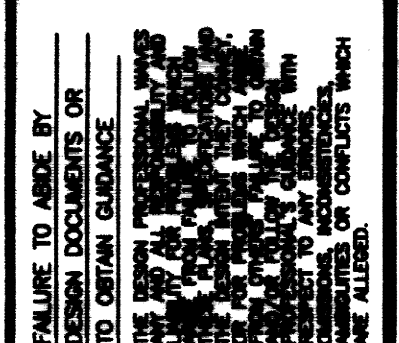
SECTION  
1/2" = 1'-0"

J  
3.8

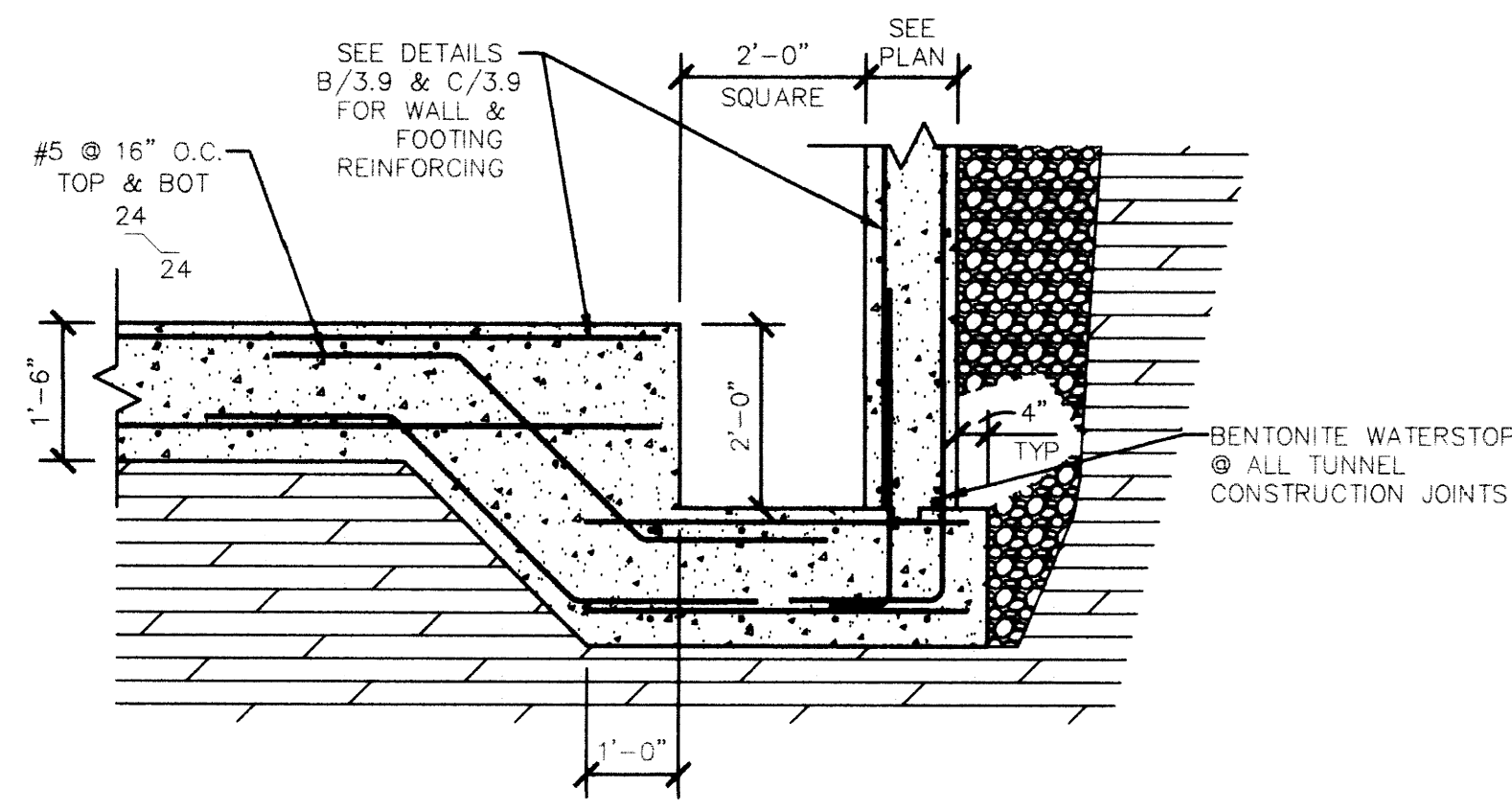


SECTION  
1/2" = 1'-0"

K  
3.8





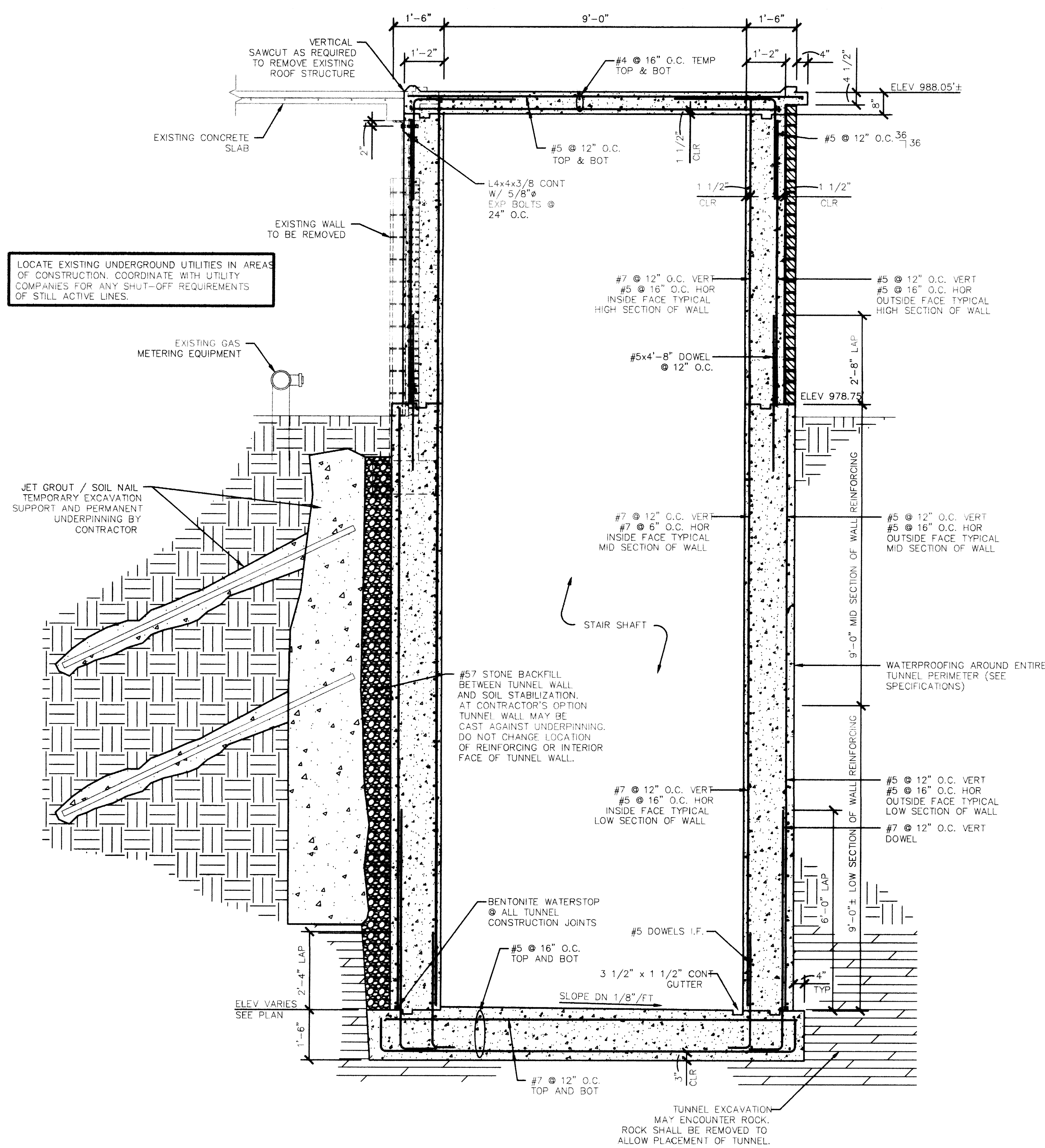


SUMP PIT DETAIL

1/2" = 1'-0"

A  
3.9

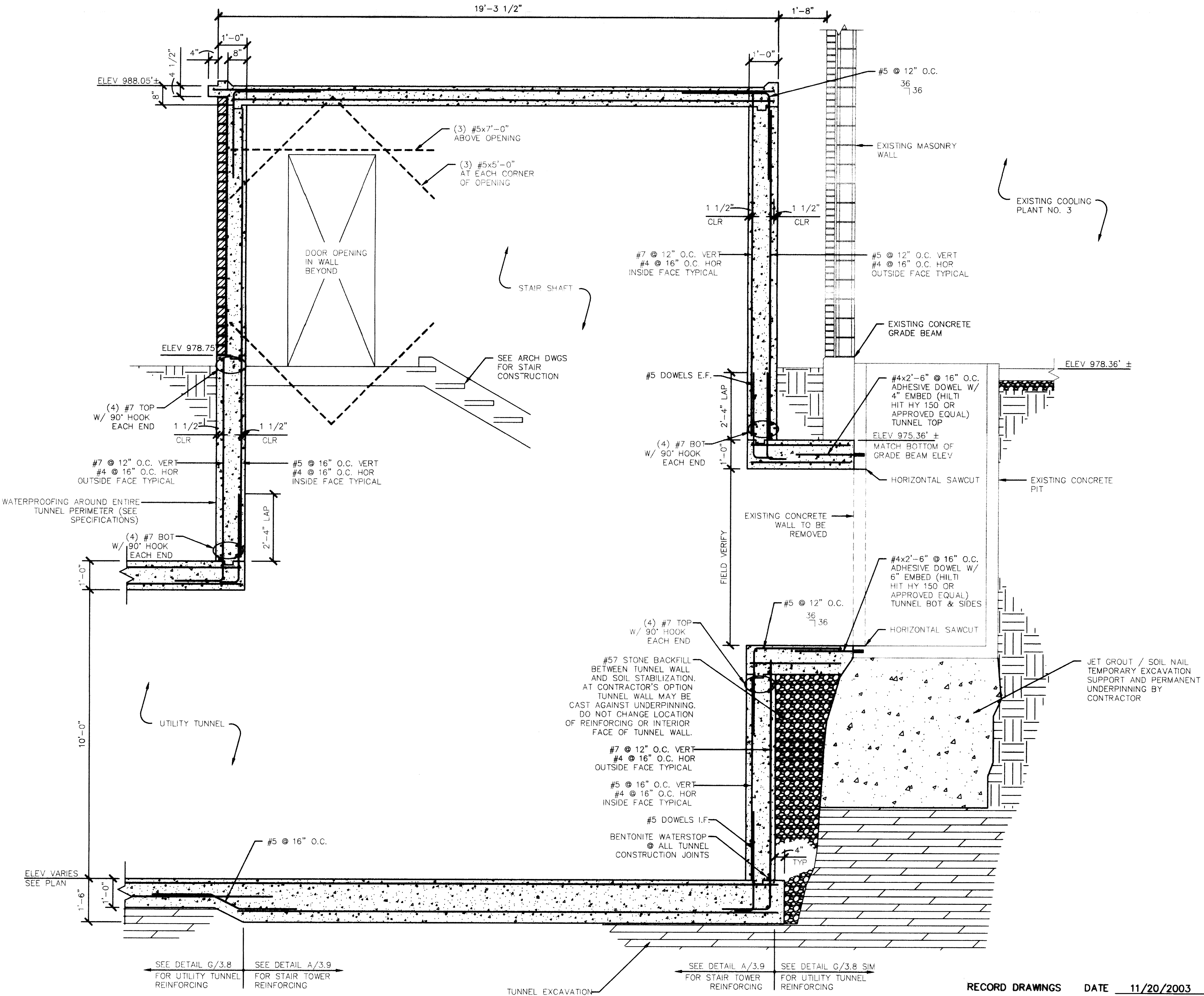
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SECTION

1/2" = 1'-0"

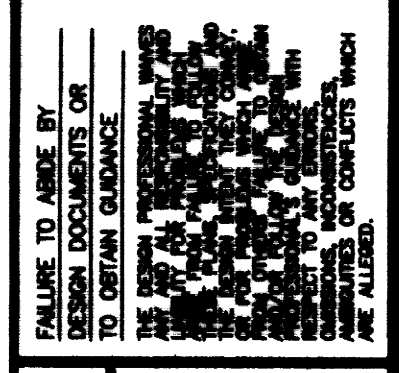
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SECTION

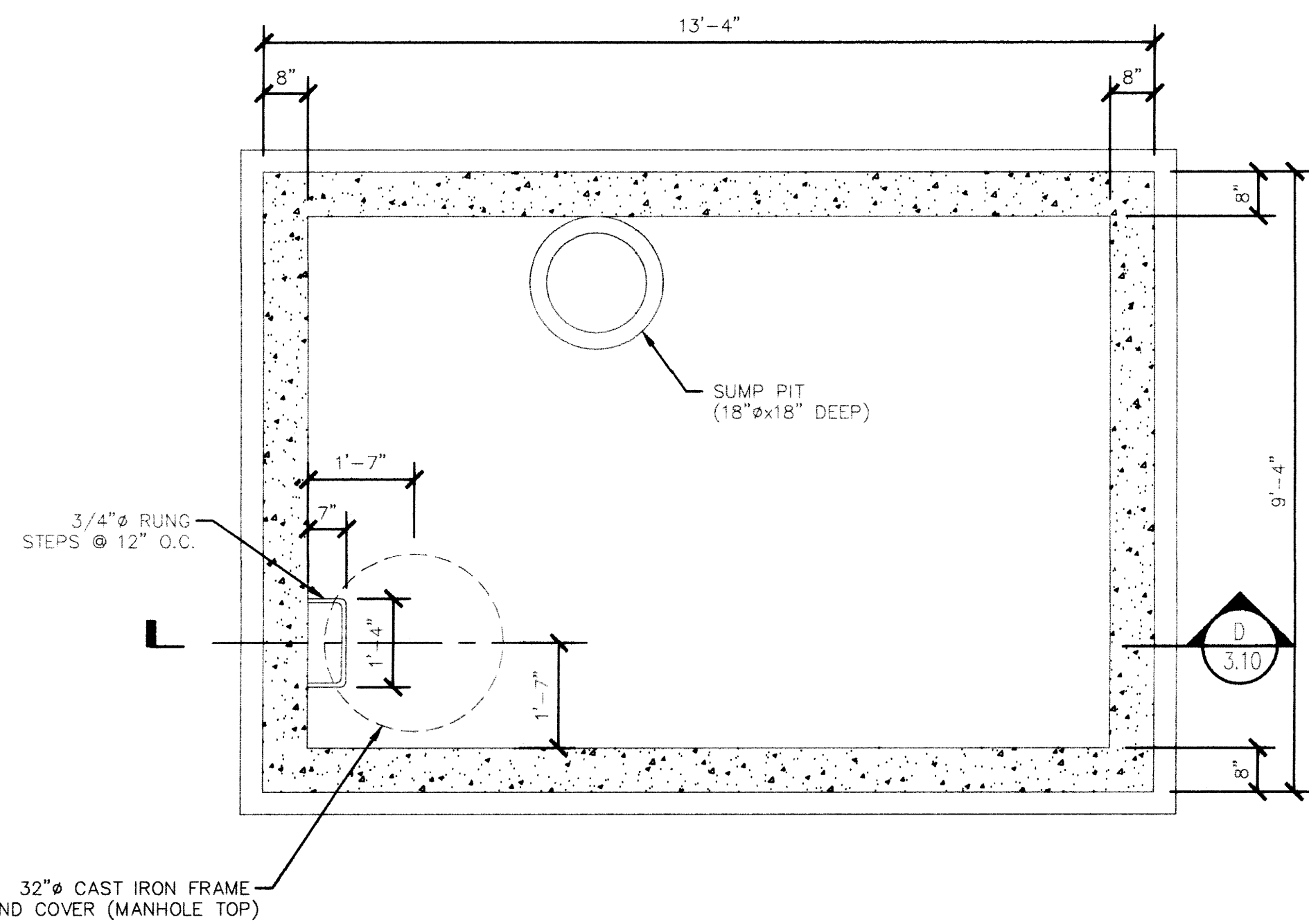
1/2" = 1'-0"

C  
3.9



RECORD DRAWINGS DATE 11/20/2003  
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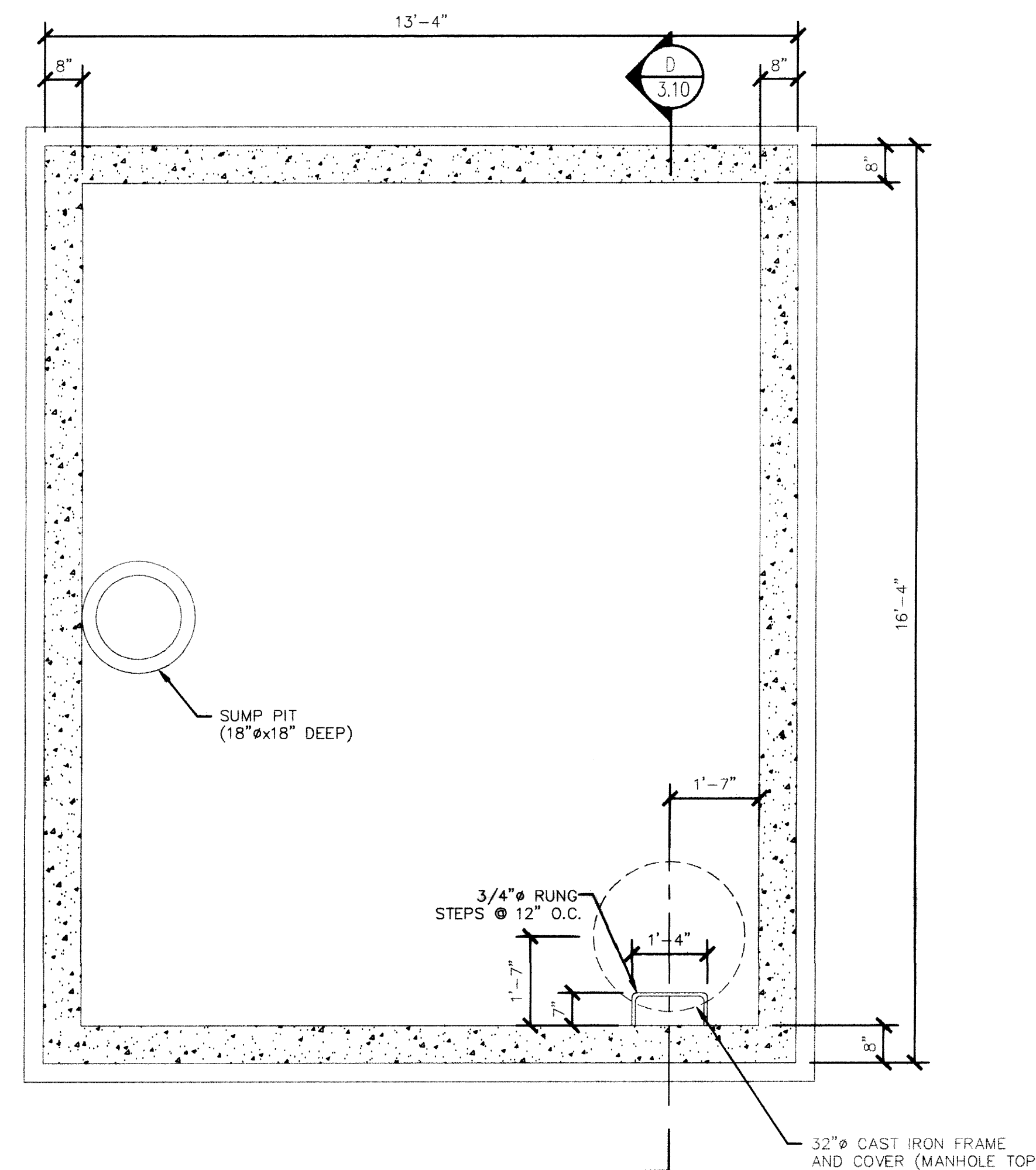
030946.dwg 10-23-00 2:03:17 pm EST



PLAN - 8' x 12' ELECTRIC MANHOLE

1/2" = 1'-0"

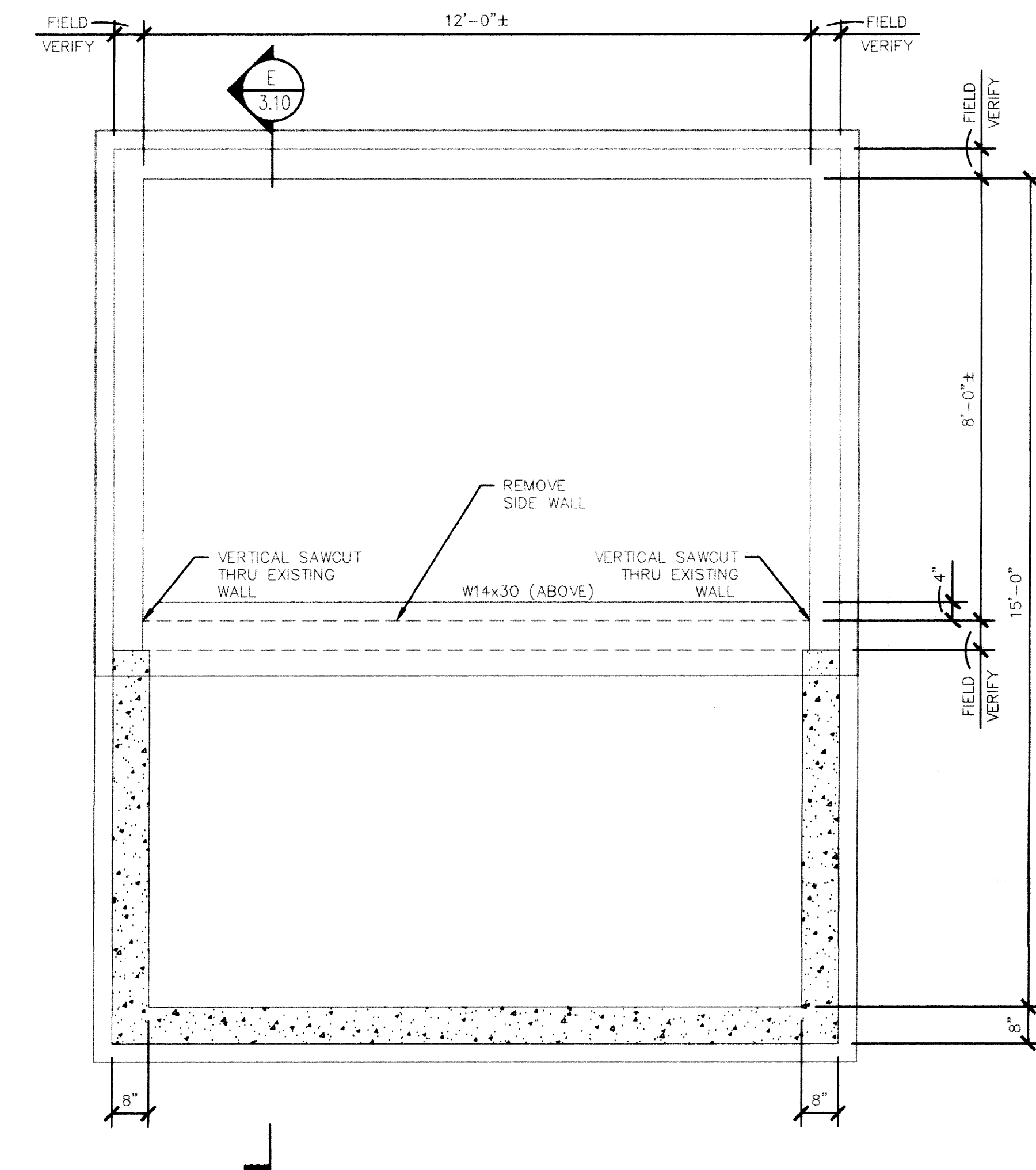
A  
3.10



PLAN - 12' x 15' ELECTRIC MANHOLE

1/2" = 1'-0"

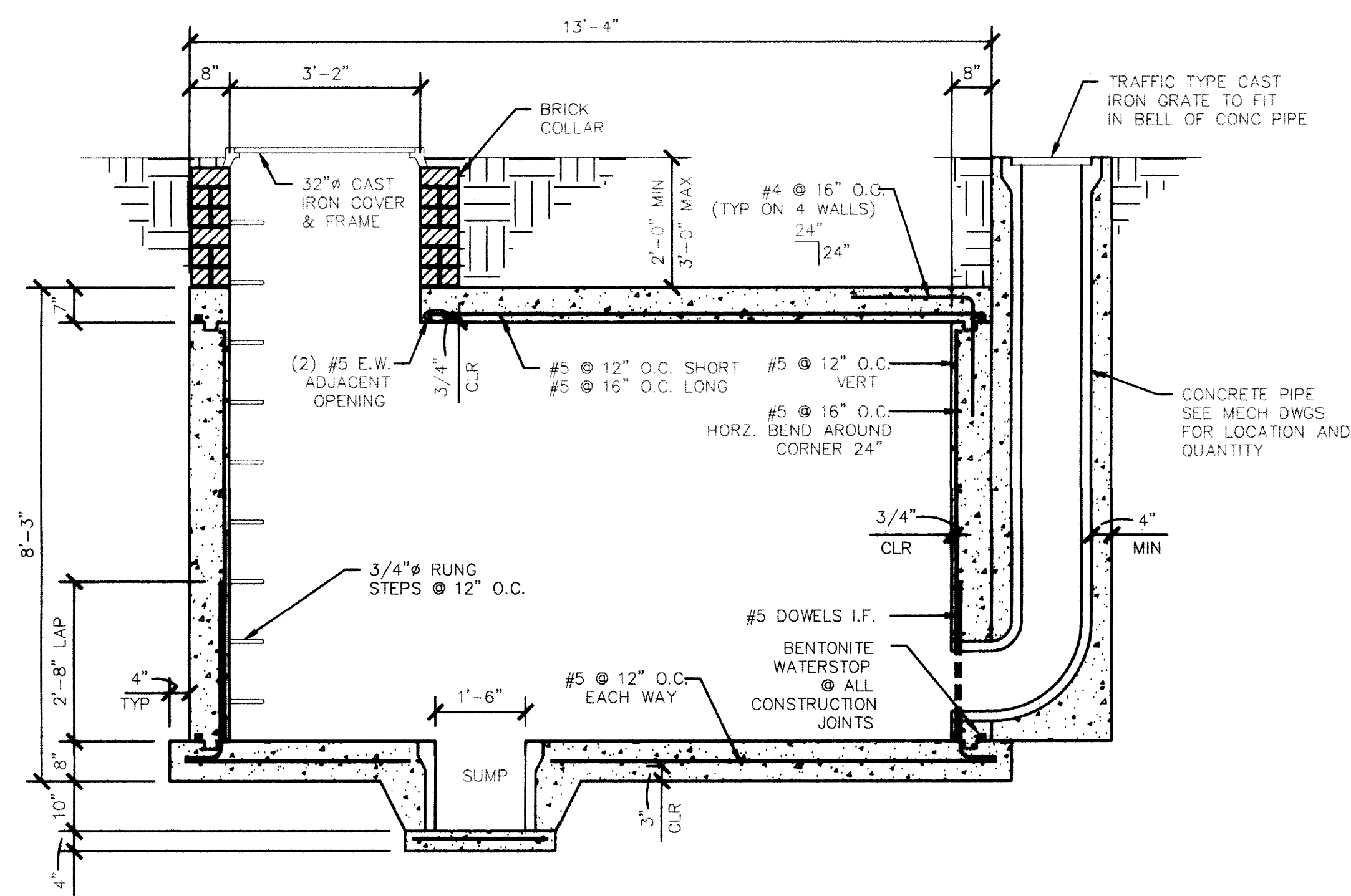
B  
3.10



PLAN - ELECTRIC MANHOLE ADDITION

1/2" = 1'-0"

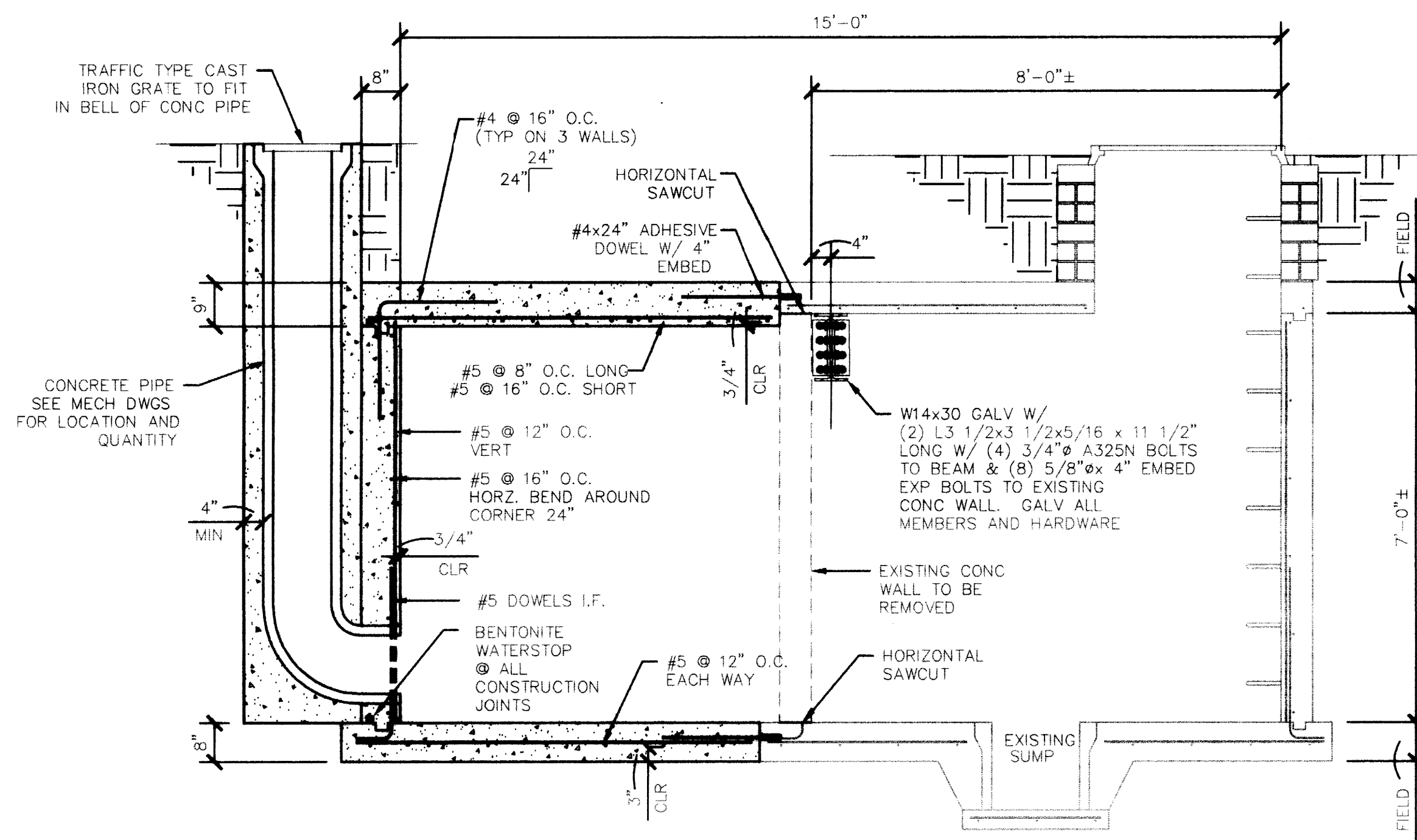
C  
3.10



SECTION

1/2" = 1'-0"

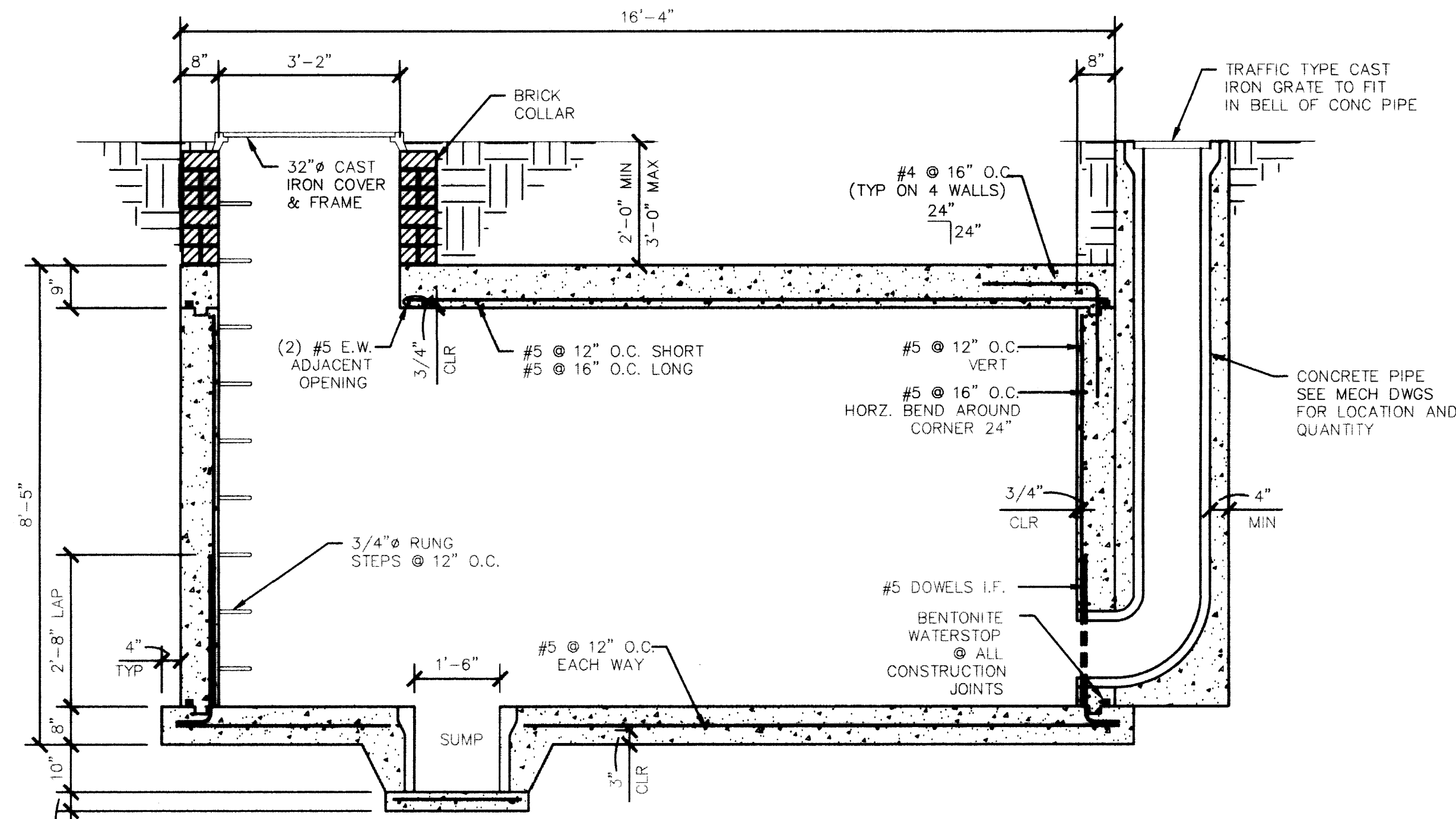
D  
3.10



SECTION

1/2" = 1'-0"

E  
3.10



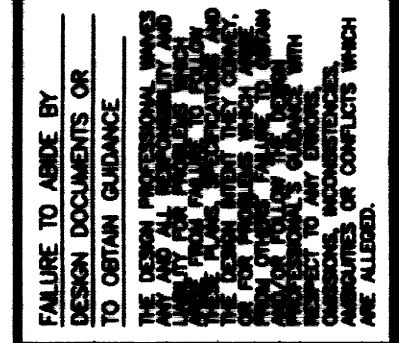
SECTION

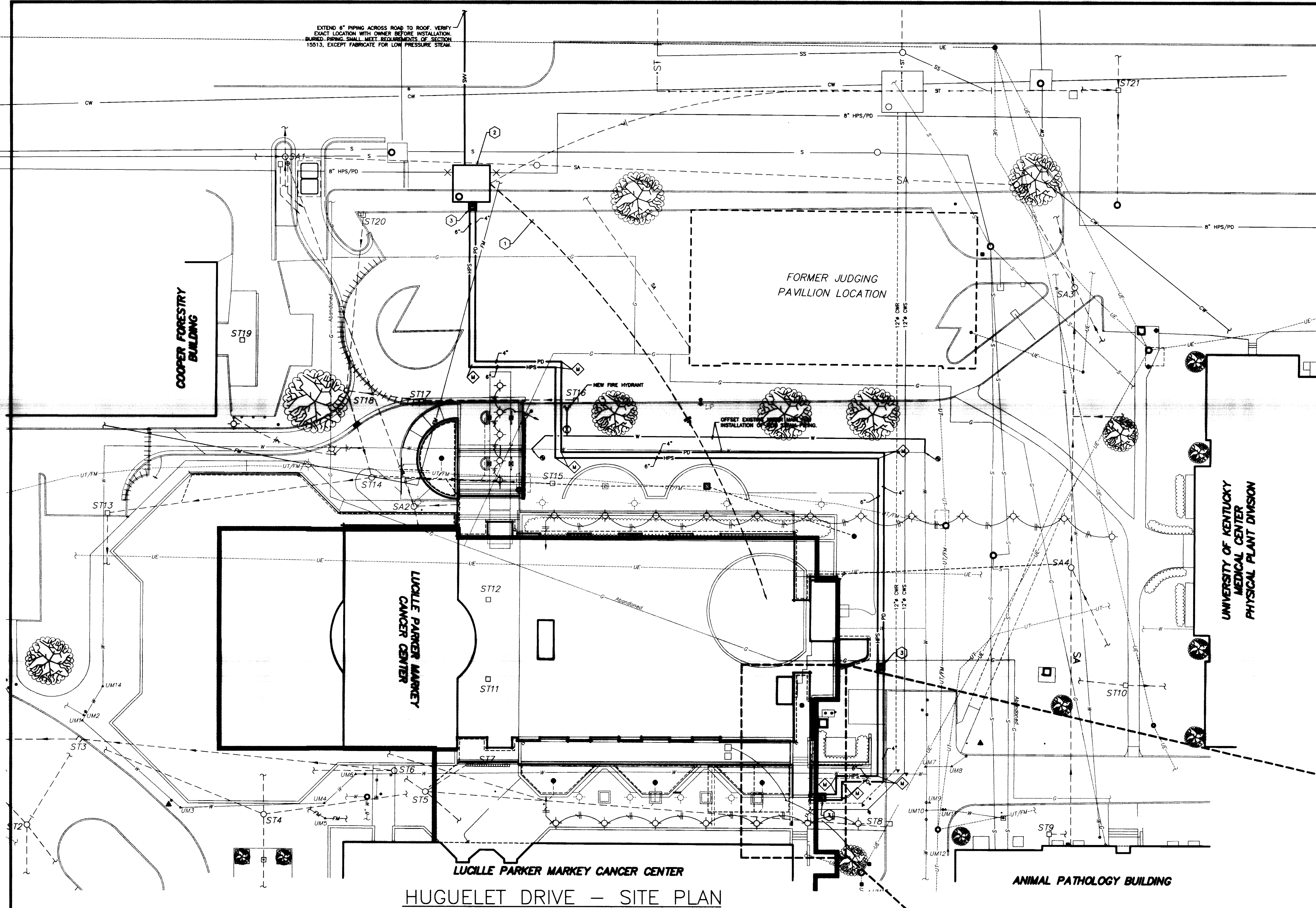
1/2" = 1'-0"

E  
3.10

MANHOLE VAULT NOTES:

1. SEE MECHANICAL AND SITE DRAWINGS FOR MANHOLE LOCATION, ELEVATION, AND ORIENTATION.
2. EXCAVATIONS FOR VAULTS MAY ENCOUNTER ROCK. ROCK SHALL BE REMOVED TO 12" MINIMUM BELOW BEARING ELEVATION AND THE EXCAVATION BACKFILLED WITH CRUSHED STONE. SAID ROCK EXCAVATION SHALL BE AT NO ADDITIONAL COST TO OWNER.

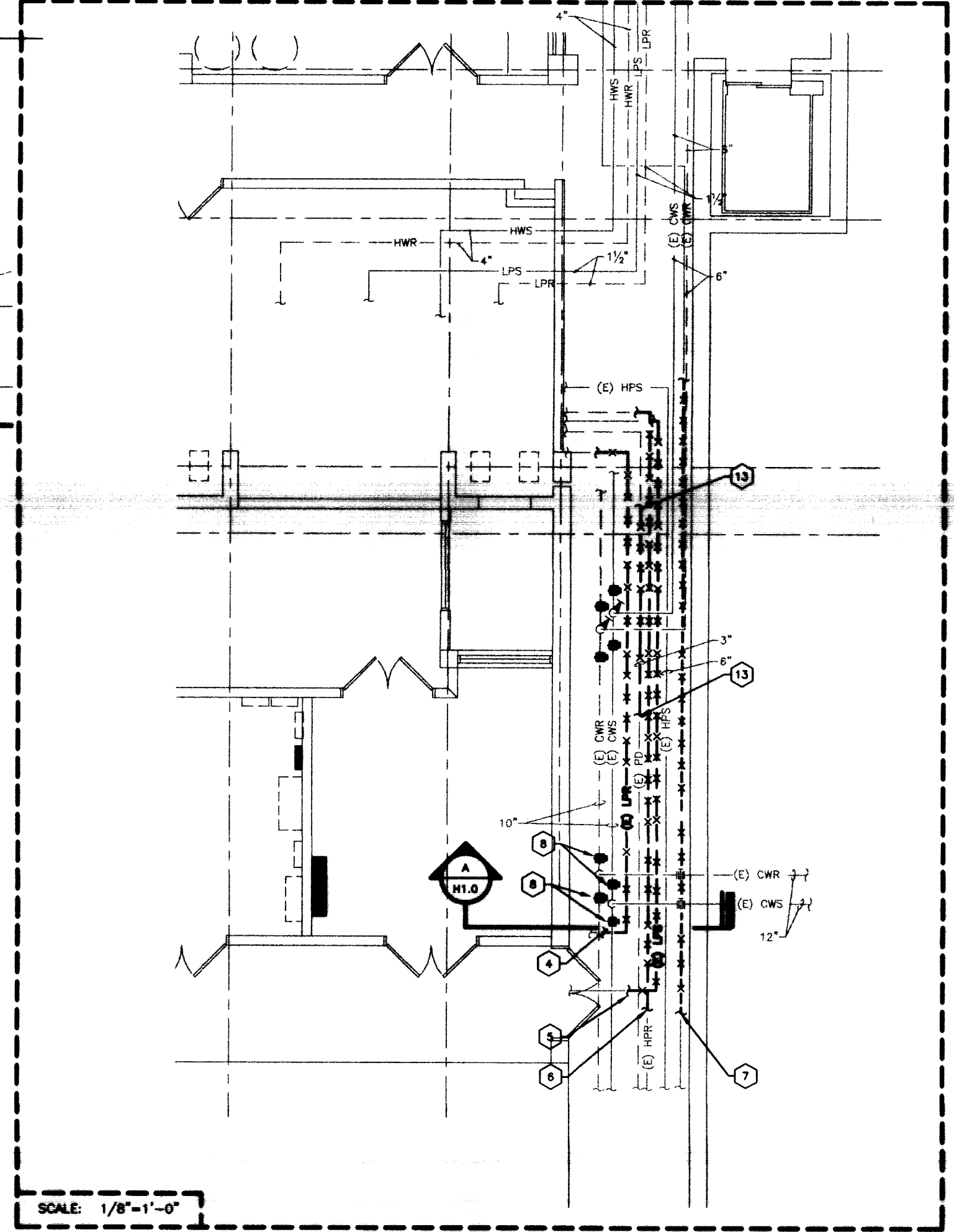




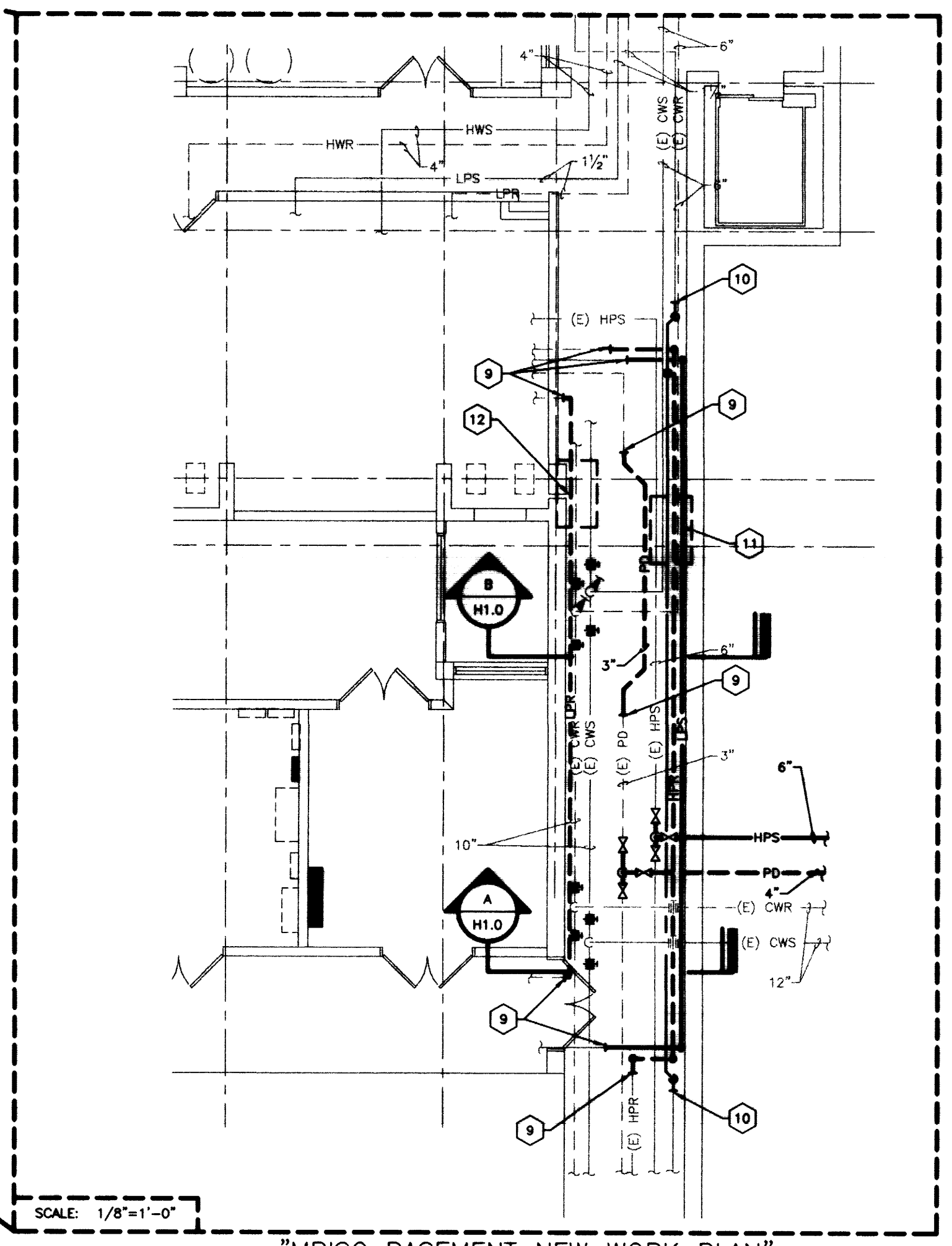
HUGUELET DRIVE - SITE PLAN

10 0 20 40 FEET

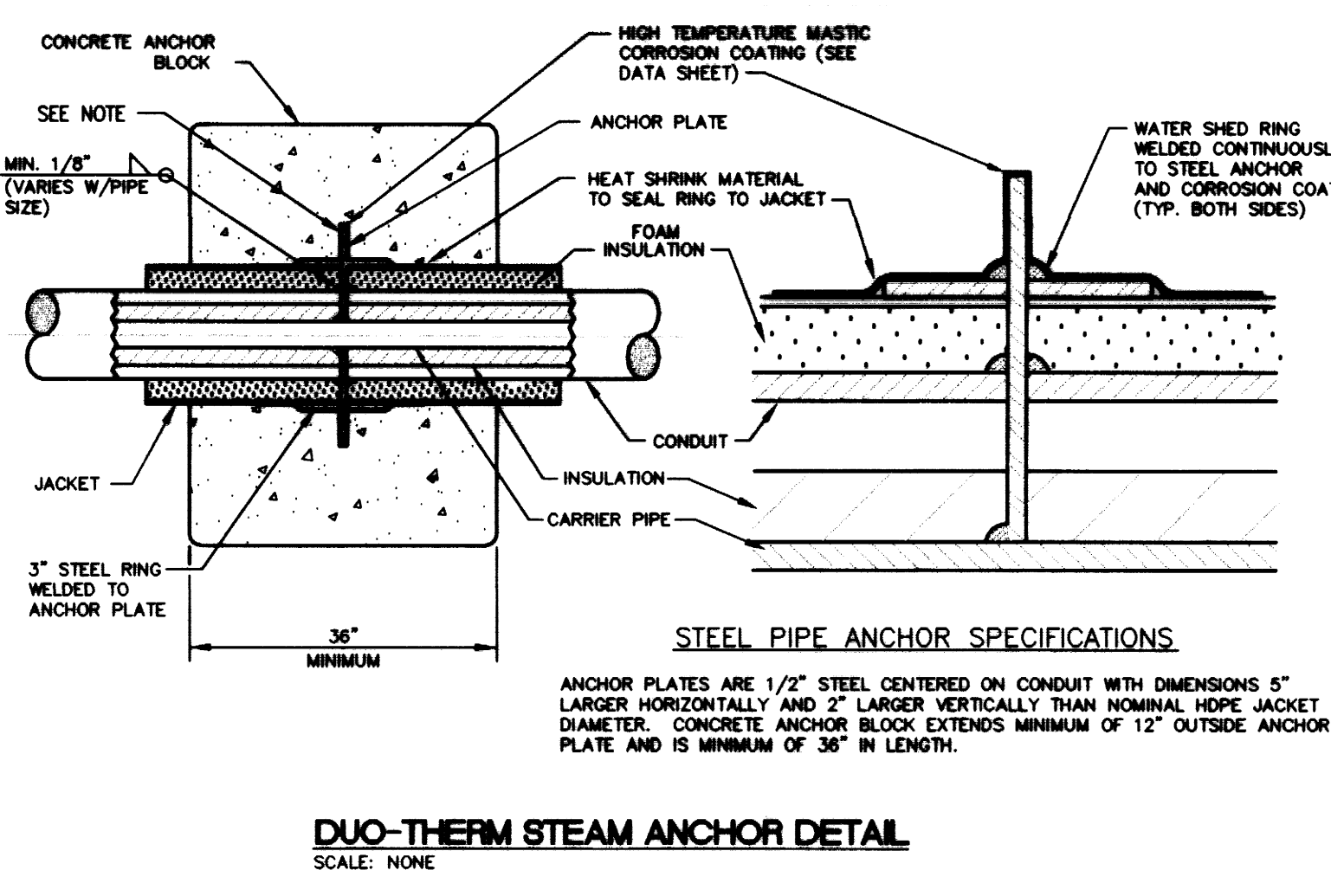
- CODED NOTES:**
- 1 POWER FEED FOR SUMP PUMP AND PIT EXHAUST FAN. EXTEND TO 30 AMP BREAKER IN WOMEN'S CANCER CENTER PANEL "L". SEE DETAIL FOR ROUGH-IN LOCATIONS.
  - 2 NEW HUGUELET DRIVE STEAM MANHOLE (SEE DETAILS).
  - 3 STEAM AND PUMP DISCHARGE PIPING ANCHOR. FINAL LOCATIONS BY PIPING MANUFACTURER.
  - 4 REROUTE EXISTING LOW PRESSURE RETURN PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
  - 5 REROUTE EXISTING LOW PRESSURE STEAM PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
  - 6 REROUTE EXISTING HIGH PRESSURE RETURN PIPING. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
  - 7 REROUTE EXISTING EXHAUST DUCT. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.
  - 8 ROTATE EXISTING VALVE SO IT CAN BE EASILY ACCESSIBLE AT THE BOTTOM OF PIPING. TYPICAL.
  - 9 RECONNECT PIPING TO EXISTING AT THIS APPROXIMATE LOCATION.
  - 10 RECONNECT EXHAUST DUCT TO EXISTING AT THIS APPROXIMATE LOCATION. RUN EXHAUST DUCT HIGHER THAN LOW PRESSURE STEAM AND HIGH PRESSURE RETURN. SEE "NEW" SECTION.
  - 11 CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING WITH NEW ROUTE FOR EXHAUST DUCT. LOW PRESSURE STEAM AND HIGH PRESSURE RETURN AT THIS APPROXIMATE LOCATION. OFFSET NEW DUCT, AND/OR, NEW PIPING AS NEEDED.
  - 12 LOW PRESSURE RETURN PIPING RUN BENEATH CWR PIPING. OFFSET NEW PIPING AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPING AT THIS APPROXIMATE LOCATION. OFFSET NEW PIPING AS NEEDED.
  - 13 OFFSET AND REROUTE EXISTING PUMP DISCHARGE PIPING AT THIS APPROXIMATE LOCATION. SEE NEW WORK PLAN FOR NEW LOCATION. FIELD VERIFY EXISTING PIPING SIZE.



"MRISC BASEMENT DEMOLITION PLAN"

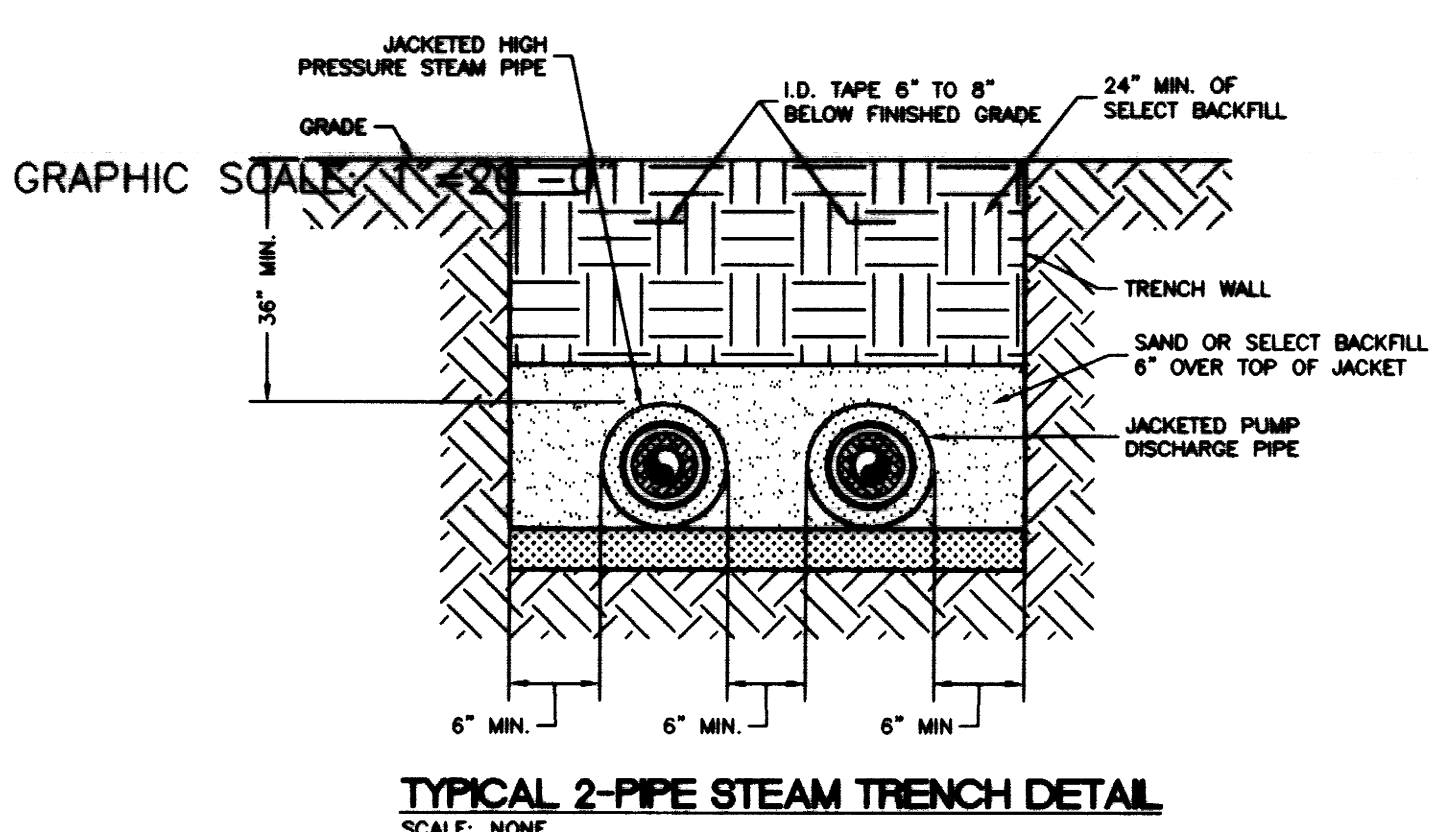


"MRISC BASEMENT NEW WORK PLAN"



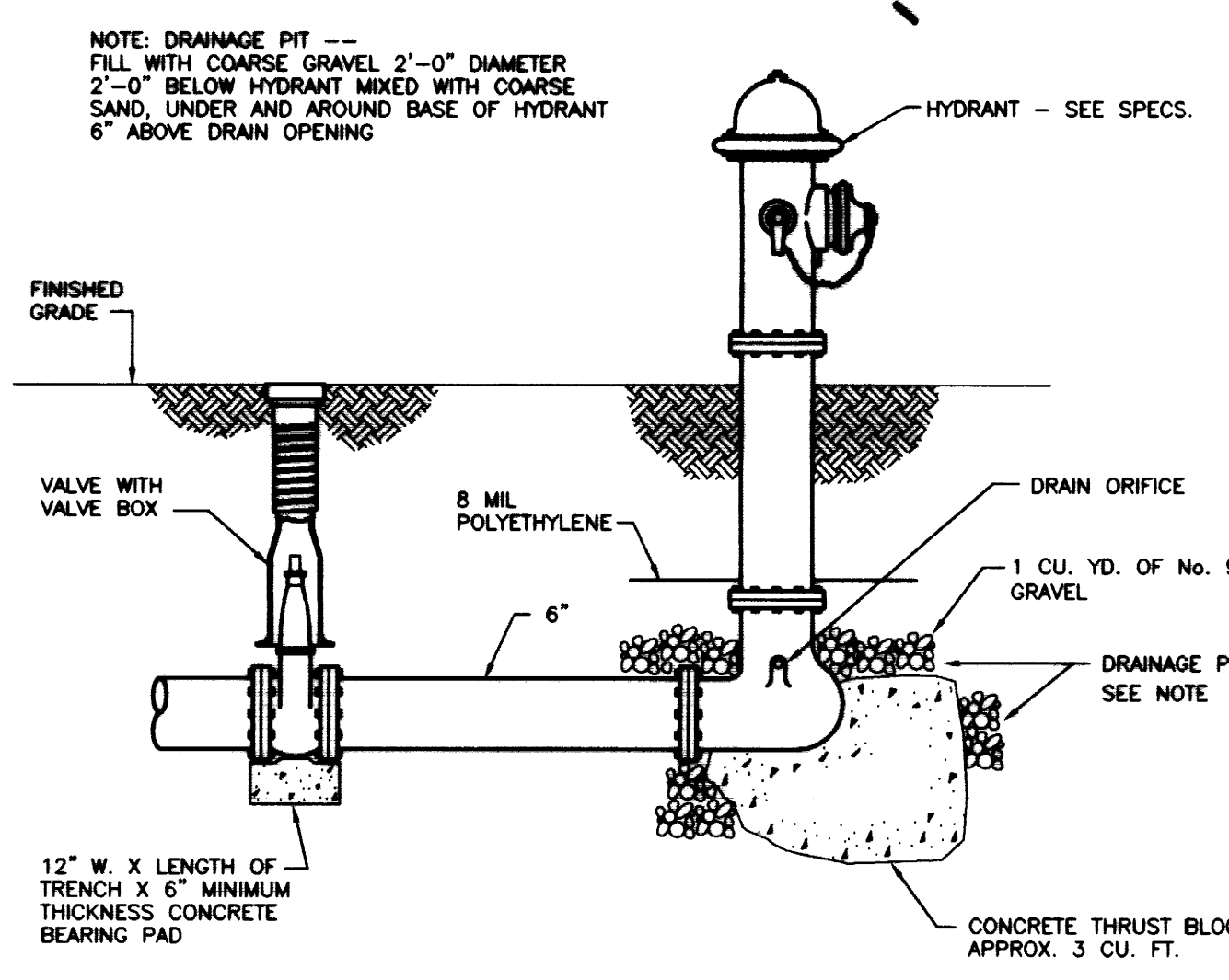
DUO-THERM STEAM ANCHOR DETAIL

SCALE: NONE



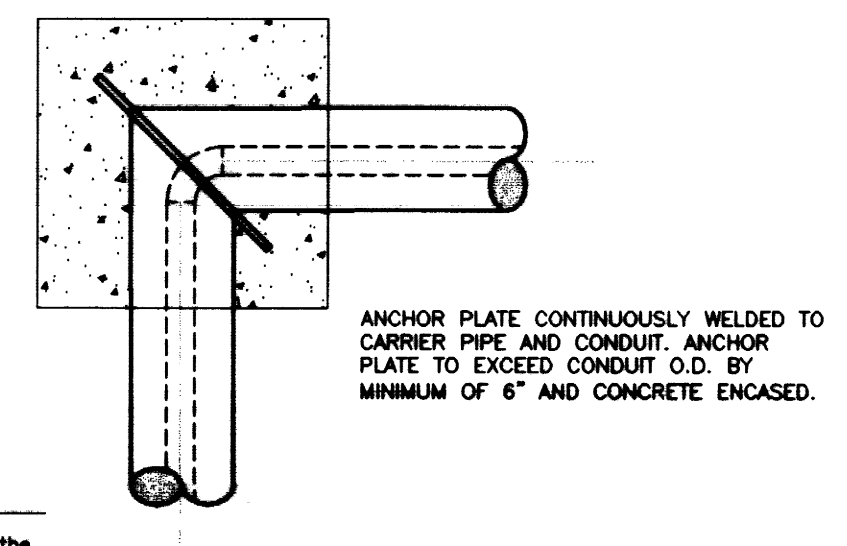
TYPICAL 2-PIPE STEAM TRENCH DETAIL

SCALE: NONE



FIRE HYDRANT DETAIL

NO SCALE



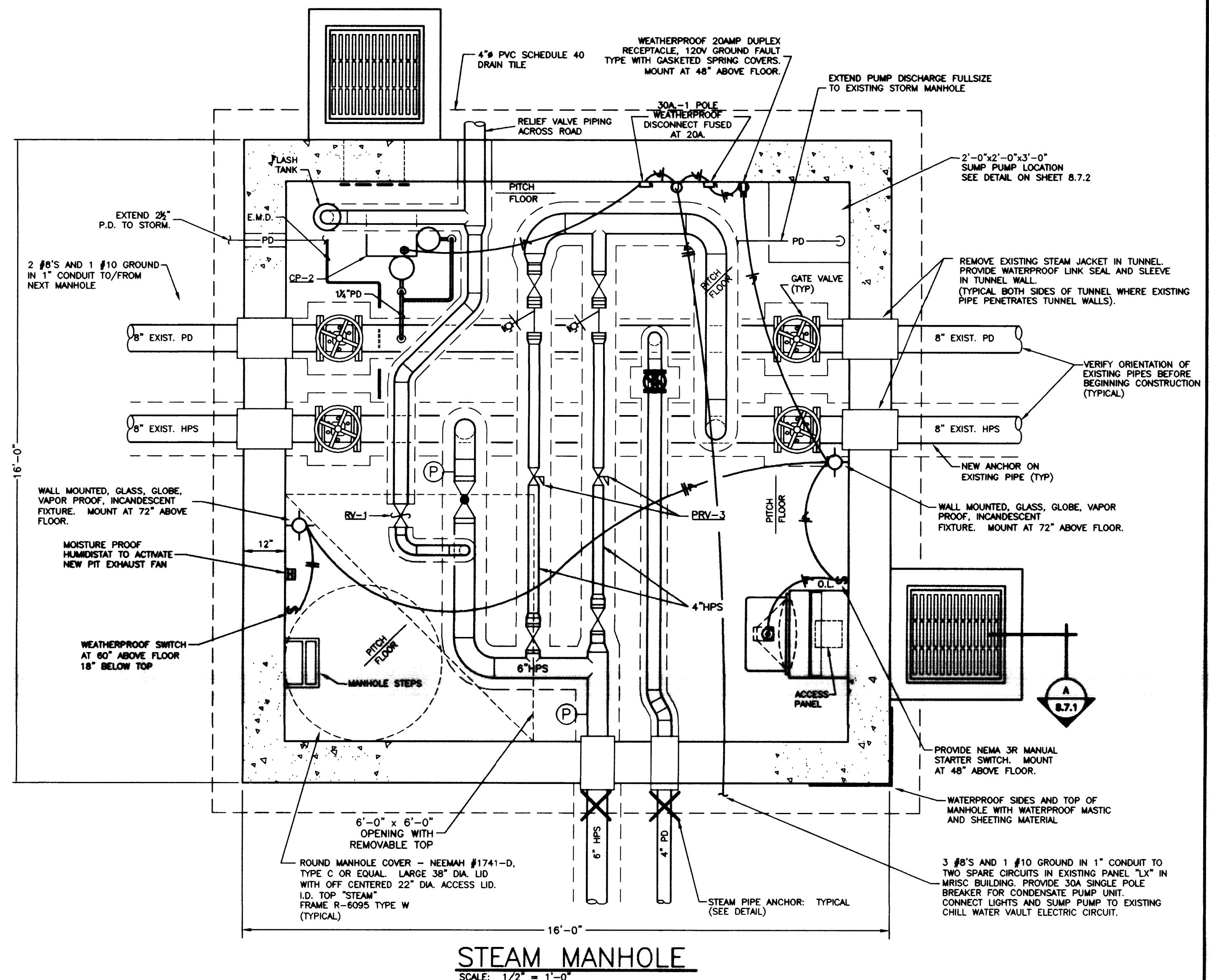
ANCHORED ELBOW DETAIL

SCALE: NONE

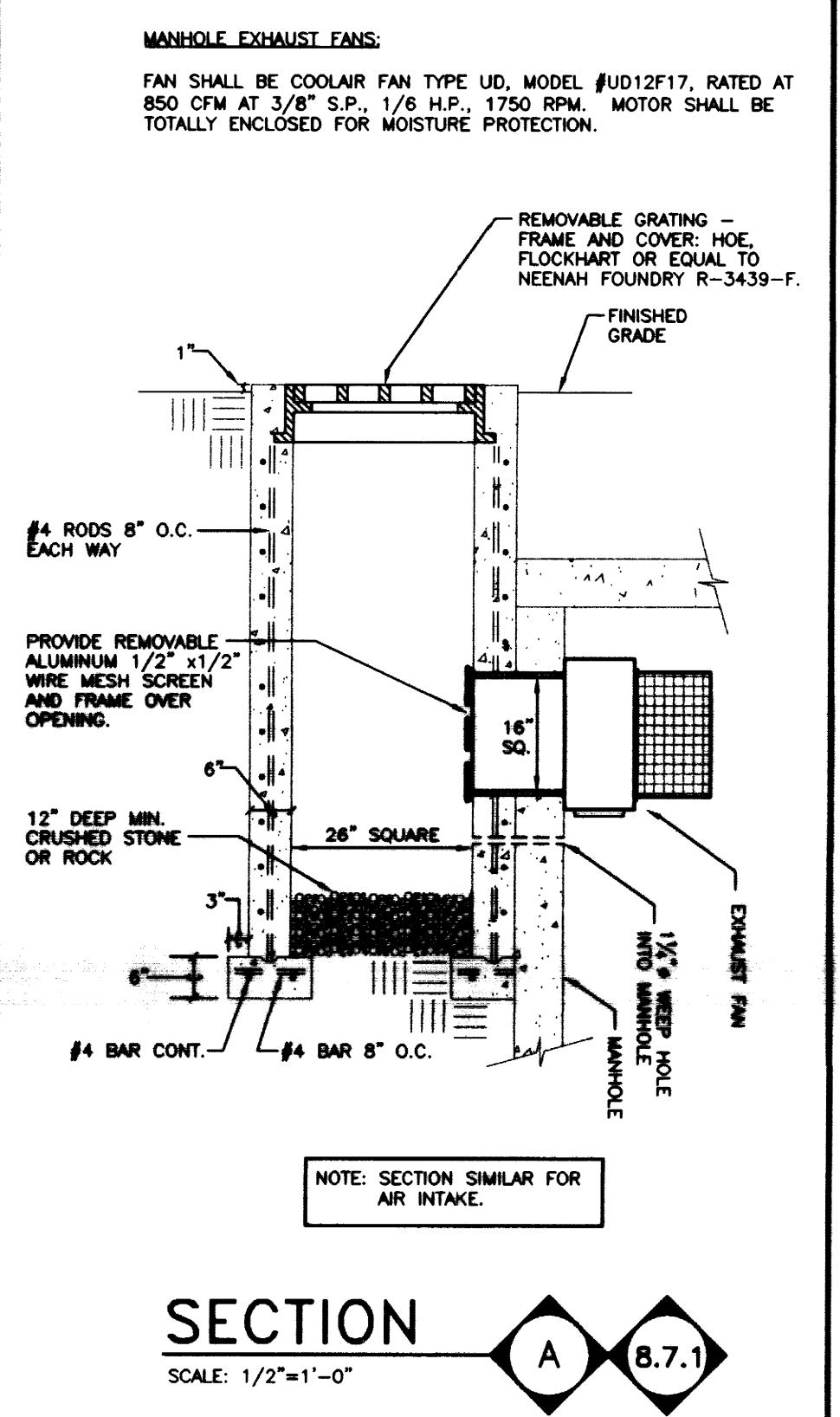
**NOTE:**  
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RECORD DRAWINGS DATE 11/10/03  
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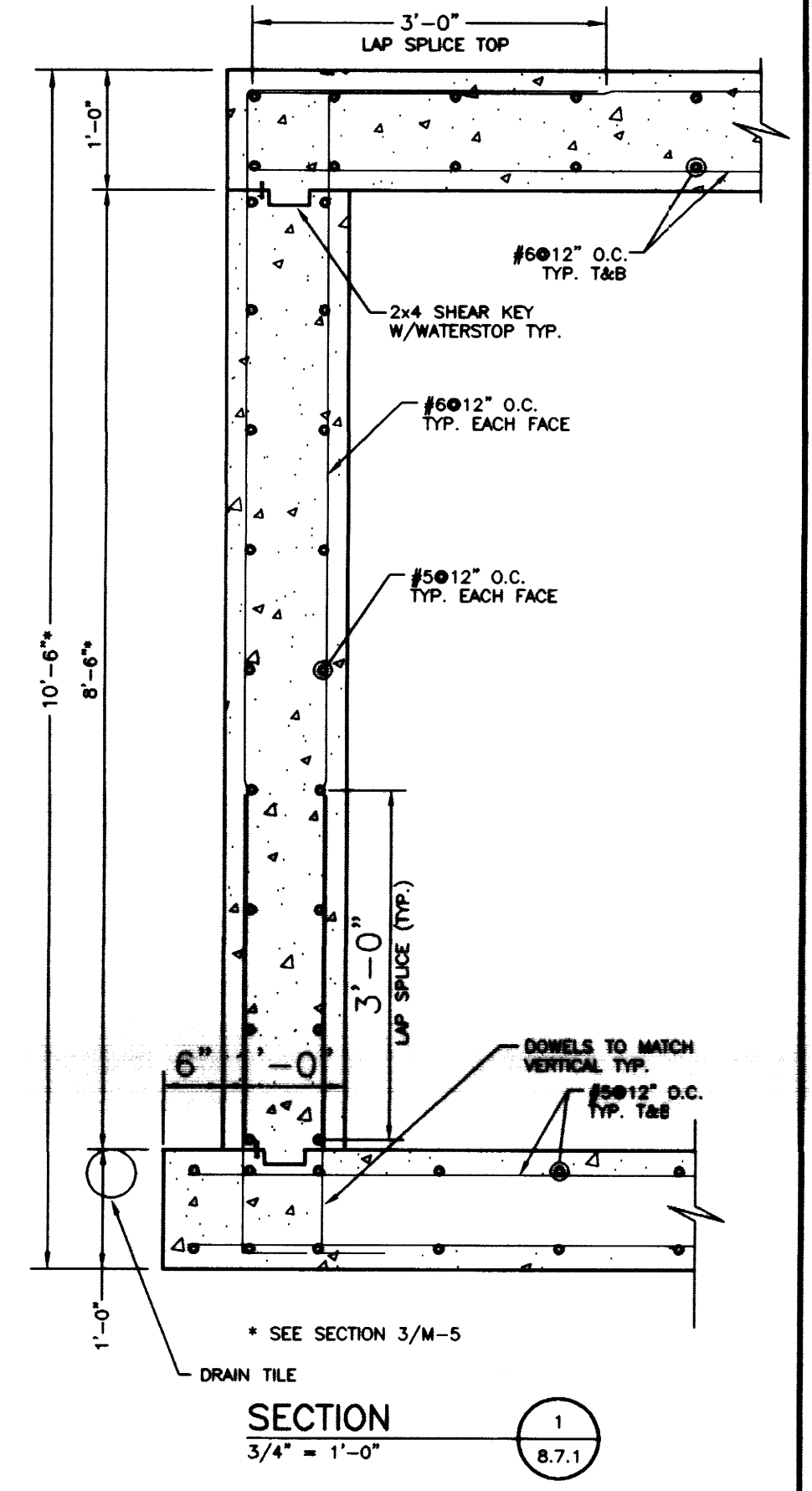
STAGGS & FISHER CONSULTING ENGINEERS, INC.



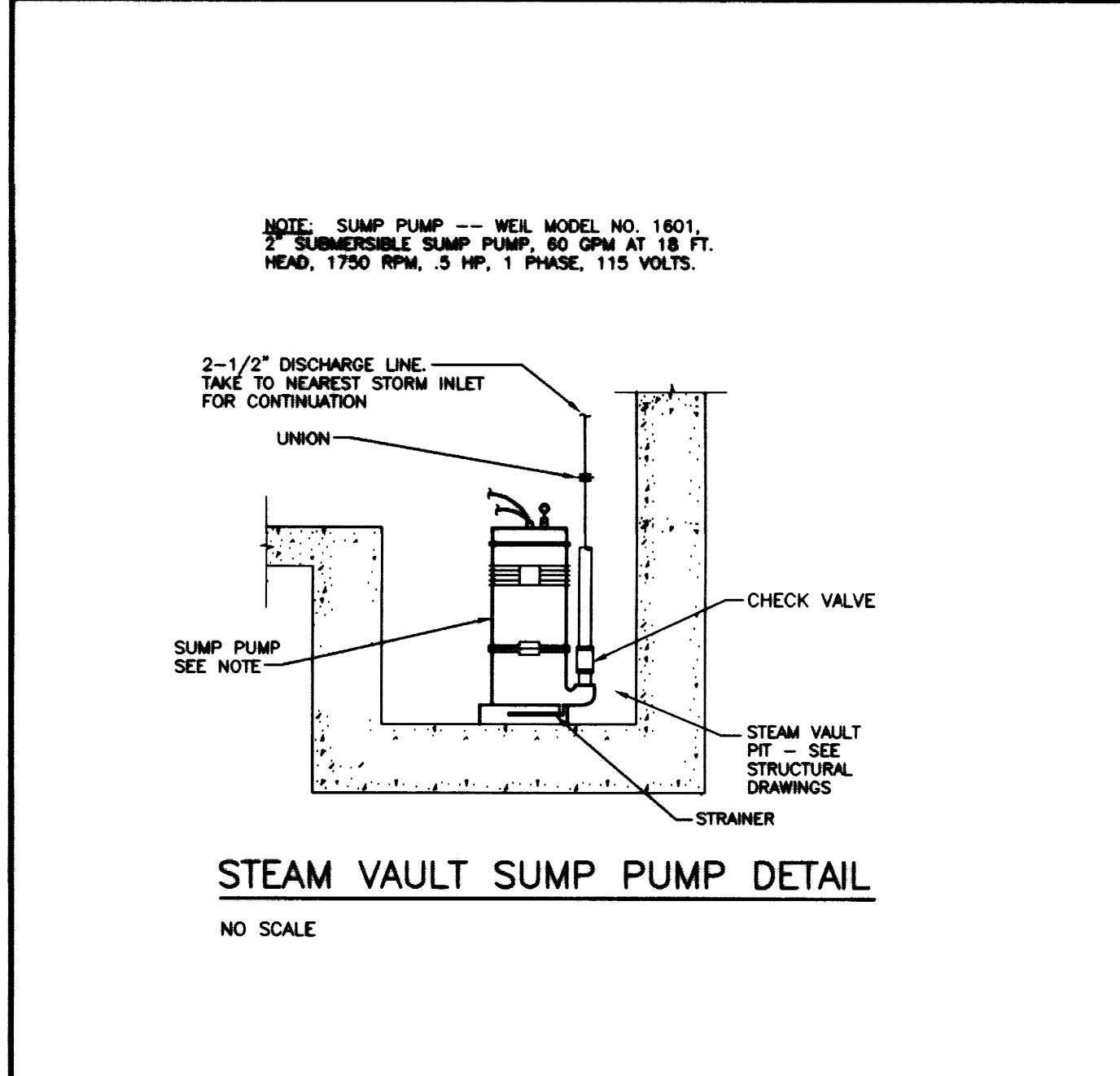
**STEAM MANHOLE**  
SCALE: 1/2" = 1'-0"



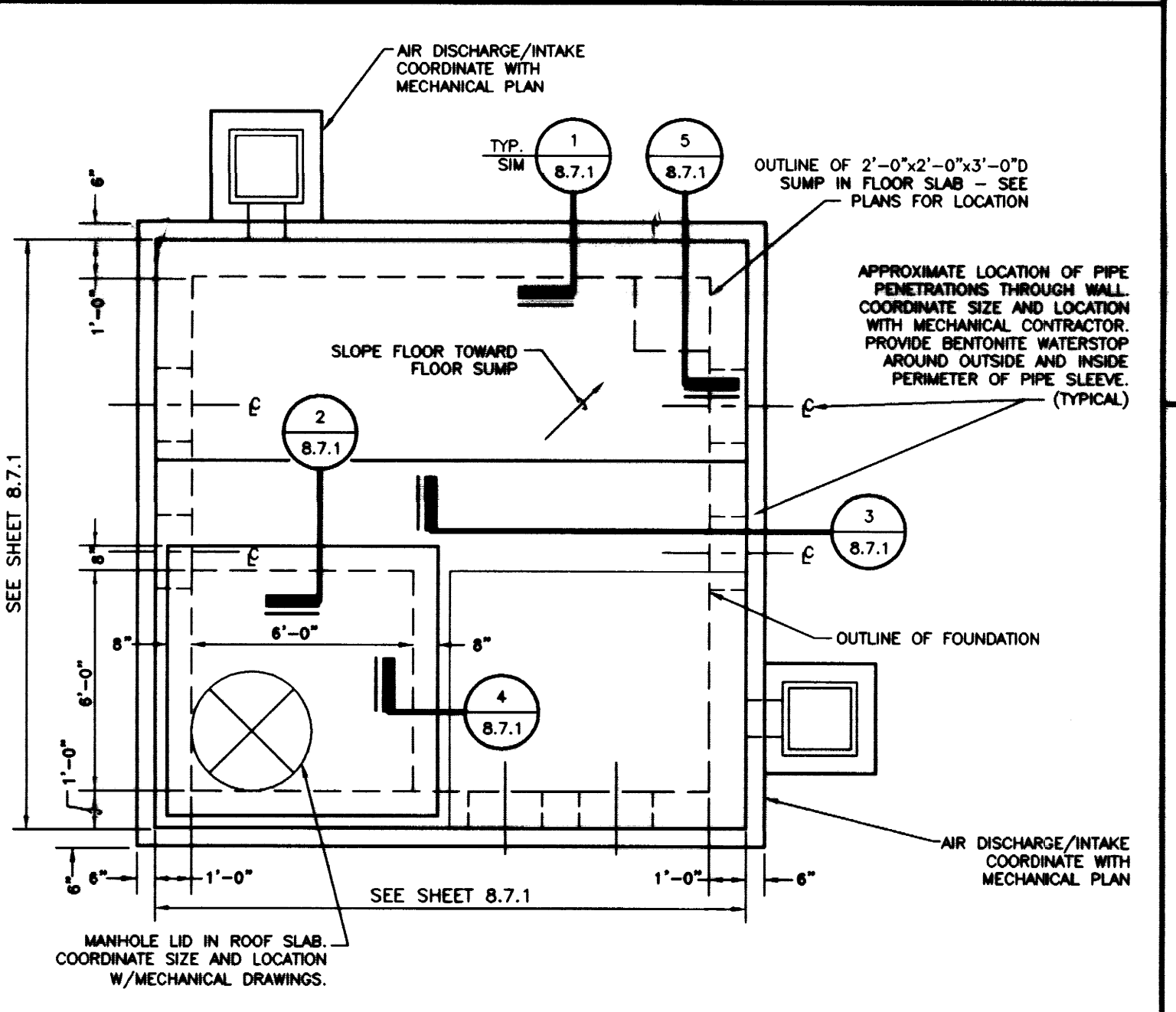
**SECTION A-B.7.1**  
SCALE: 1/2" = 1'-0"



**SECTION 1**  
SCALE: 3/4" = 1'-0"



**STEAM VAULT SUMP PUMP DETAIL**  
NO SCALE



**PLAN - TYPICAL MANHOLE**  
1/4" = 1'-0"

**PART I**  
A. NOTES TO THE CONTRACTOR

1. DRAWINGS REPRESENT THE DESIRED RESULT OF CONSTRUCTION. THE METHODS OF CONSTRUCTION AND THE RISKS INVOLVED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY AT ALL STAGES OF CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS DURING CONSTRUCTION AND REPORT TO THE ARCHITECT/ENGINEER DURING CONSTRUCTION AND TO THE ARCHITECT/ENGINEER PRIOR TO COMMENCING ANY PERTINENT WORK.

**PART II**  
B. DESIGN CRITERIA

THIS STRUCTURE HAS BEEN DESIGNED ACCORDING TO THE KENTUCKY BUILDING CODE AND FOR THE SPECIFIC LOADS WHICH ARE LISTED BELOW.

1. ROAD SURCHARGE = 200 PSF
2. PIPE HANGERS = 50 PSF
3. AASHTO H20-44 DESIGN TRUCK LOAD

C. FOUNDATION, FILLING, AND EXCAVATION (SOIL REPORT)

THE ACTUAL SOIL (ROCK) BEARING CAPACITIES AND SOIL COMPACTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO COMMENCING WORK.

1. FOOTINGS SHALL BE PLACED ON A LEVEL SURFACE.
2. DO NOT PLACE BACKFILL AGAINST MANHOLE OR TUNNEL WALLS UNTIL ROOF STRUCTURE IS IN PLACE.

D. CAST IN PLACE CONCRETE

1. PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI 318-11 MANUAL, OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AND OPENINGS THROUGH CONCRETE STRUCTURES.
2. SUBMIT LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TEST AS SPECIFIED BELOW.
3. ALL CONCRETE SHALL DEVELOP 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
4. REINFORCING BARS SHALL BE DEFORMED AND SHALL CONFORM TO ASTM A615,  $F_y = 60$  KSI.
5. SPLICES IN CONTINUOUS VERTICAL OR HORIZONTAL REINFORCING BARS SHALL BE PER LATEST EDITION OF ACI 318 OR (40) BAR DIAMETER LAP SPLICE WHICH EVER IS GREATER UNLESS NOTED AND SHALL BE EITHER CONTINUOUS OR SPACED WITH DONNELLS THROUGH CONCRETE STRUCTURES.
6. CLEARANCES BETWEEN REINFORCING BARS AND CONCRETE SURFACES SHALL BE AS FOLLOWS:

a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
b) CONCRETE EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BAR AND SMALLER	1-1/2
c) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS (#11 AND SMALLER) BEAMS: PRIMARY REINFORCEMENT, STIRRUPS	1-1/2

7. ALL HOOKED BARS SHALL BE STANDARD HOOKS, UNO.

**PART III**  
ABBREVIATIONS

W/	WITH
T&B	TOP AND BOTTOM
T.C.E.	TOP OF CONCRETE ELEVATION
GA.	GAUGE
REIN.	REINFORCING
O.C.	ON CENTER
GA.	GALVANIZED

**PART IV**  
MATERIAL SPECIFICATIONS

1. RECESSED LIFTING ANCHORS - P-52 SL 4 TON X 3 3/4" (HOT DIPPED GALV) COMPLETE W/
2. ONE-PART MONSIEG URETHANE SEALANT FOR USE ON: USE ONE OF THE FOLLOWING OR EQUIVALENT PRODUCTS:
  - A. P-81 SL SETTING PLATE (HOT DIPPED GALV.)
  - B. P-82 SL COUNTER SLURK SCREW (HOT DIPPED GALV.)
  - C. P-86 SL TAPPED PLATE (HOT DIPPED GALV.)
  - D. P-56 RECESS PLUG MANUFACTURED BY DAYTON SUPERIOR OR EQUIVALENT.
3. PLASTIC FOAM JOINT FILLERS: PREFORMED, COMPRESSIBLE, RESILIENT, NONWAXING, NON-EXTRUDING STRIPS OF FLEXIBLE, NON GASSING PLASTIC FOAM OF MATERIAL INDICATED BELOW, NONABSORBENT TO WATER AND GAS, AND OF SIZE, SHAPE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMAL SEALANT PERFORMANCE.
  - A. EITHER OPEN CELL POLYURETHANE FOAM OR CLOSED-CELL POLYETHYLENE FOAM, UNLESS OTHERWISE INDICATED, SUBJECT TO APPROVAL OF SEALANT MANUFACTURER, FOR COLD-APPLIED SEALANTS ONLY.

**PART V**  
WATERSTOPS: PROVIDE FLAT, DUMBBELL TYPE OR CENTER BULB TYPE WATERSTOPS AT CONSTRUCTION JOINTS AND OTHER JOINTS AS SHOWN, SIZE TO SUIT JOINTS.

- A. POLYVINYL CHLORIDE (PVC) WATERSTOPS: CORPS OF ENGINEERS CRD-572.
- B. BENTONITE WATERSTOP: POLY-L-RX BY THE AMERICAN COLLOID CO. ARLINGTON HEIGHTS ILL. 60004

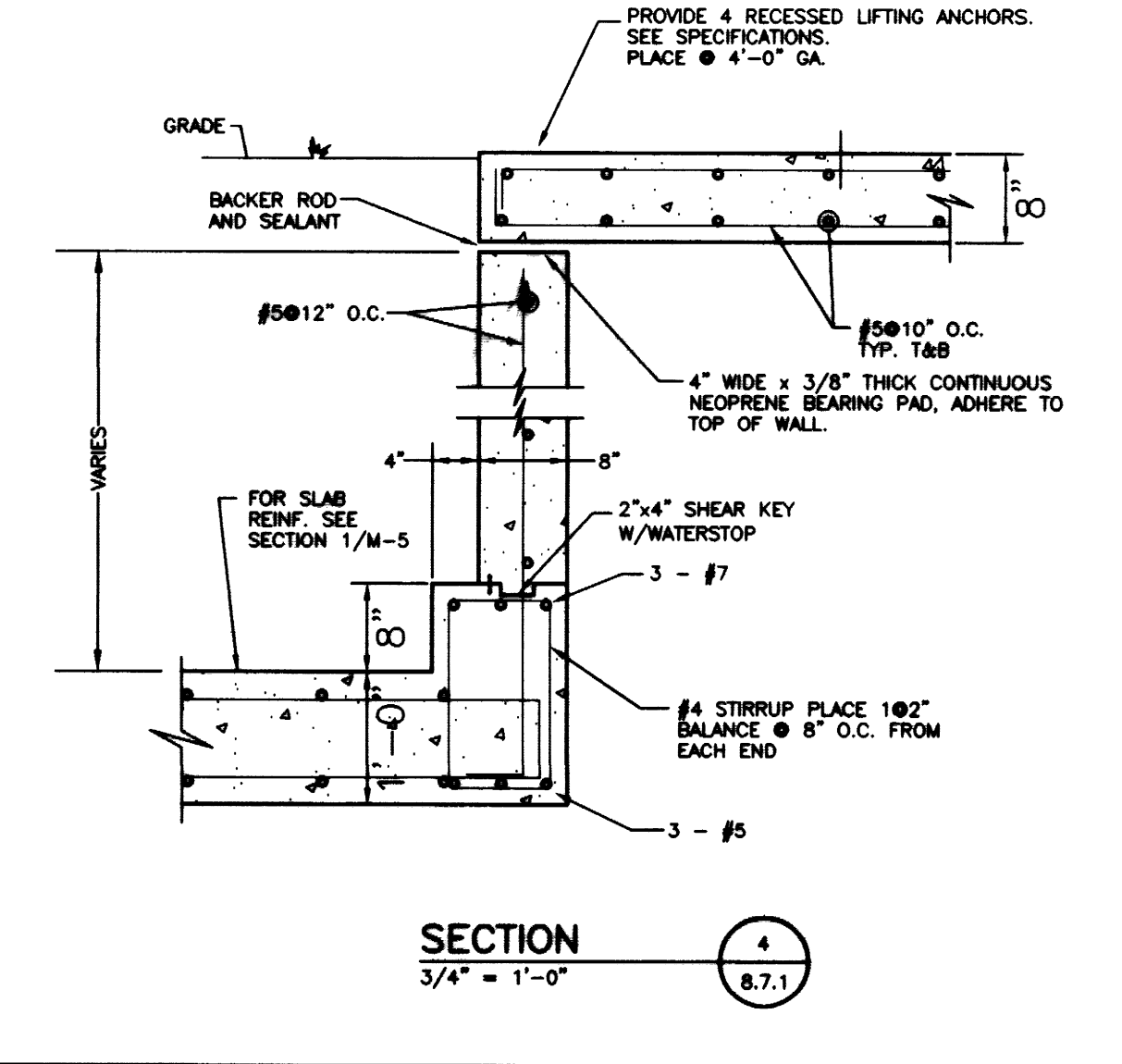
**PART VI**  
CONTRACT SPECIFICATIONS

- 1.0 SUBMITTALS
- 2.0 CONCRETE - QUALITY
- 3.0 COLD WEATHER REQUIREMENTS
- 4.0 QUALITY CONTROL TESTING
- 5.0 TESTING LABORATORY ACCEPTABLE TO ENGINEER AT CONTRACTOR'S EXPENSE TO PERFORM THE FOLLOWING SERVICES:
  - 1) QUALIFICATION OF PROPOSED MATERIALS AND THE ESTABLISHMENT OF MIX DESIGNS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318, LATEST EDITION.
  - 2) AIR CONTENT: ASTM C 173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C 231 PRESSURE FOR NORMAL WEIGHT CONCRETE, ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.
  - 3) CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4 DEGREES C) AND BELOW, AND WHEN 80 DEGREES F (27 DEGREES C) AND ABOVE.
  - 4) COMPRESSION TEST SPECIMENS: ASTM C 31, ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSION TEST, UNLESS OTHERWISE DIRECTED; HOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED, 1 RESERVED FOR LATER TESTING IF REQUIRED.
  - 5) COMPRESSION STRENGTH TESTS: ASTM C 39, ONE SET FOR EACH 100 CU. YDS. OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQ. FT. OF SURFACE AREA PLACED, 1 SPECIMEN TESTED AT 7 DAYS, 2 SPECIMENS TESTED AT 28 DAYS, 1 RESERVED FOR LATER TESTING IF REQUIRED.

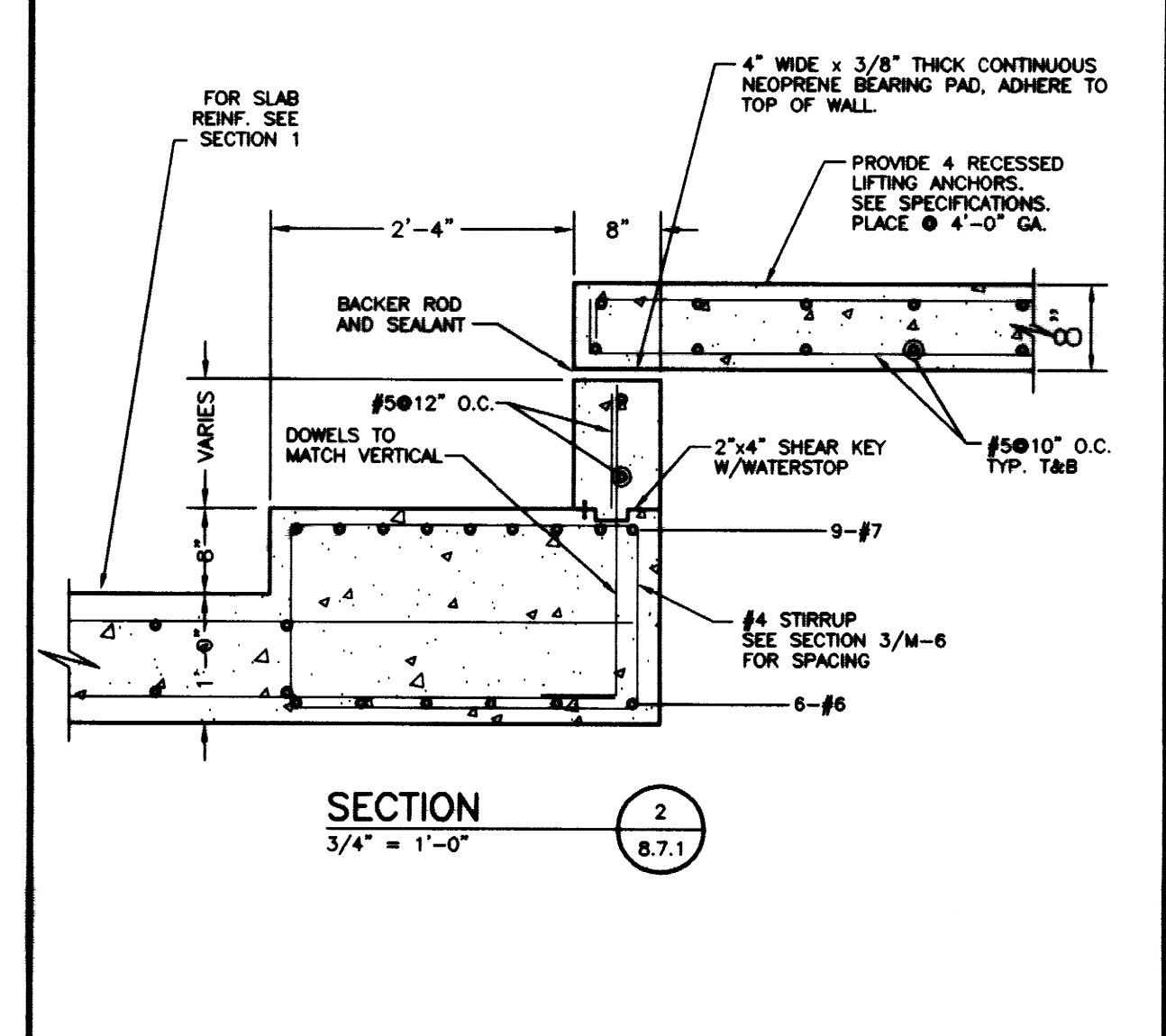
**PART VII**  
REINFORCING AT OPENINGS IN CONCRETE WALLS

OPENINGS GREATER THAN 21" DIAGONAL

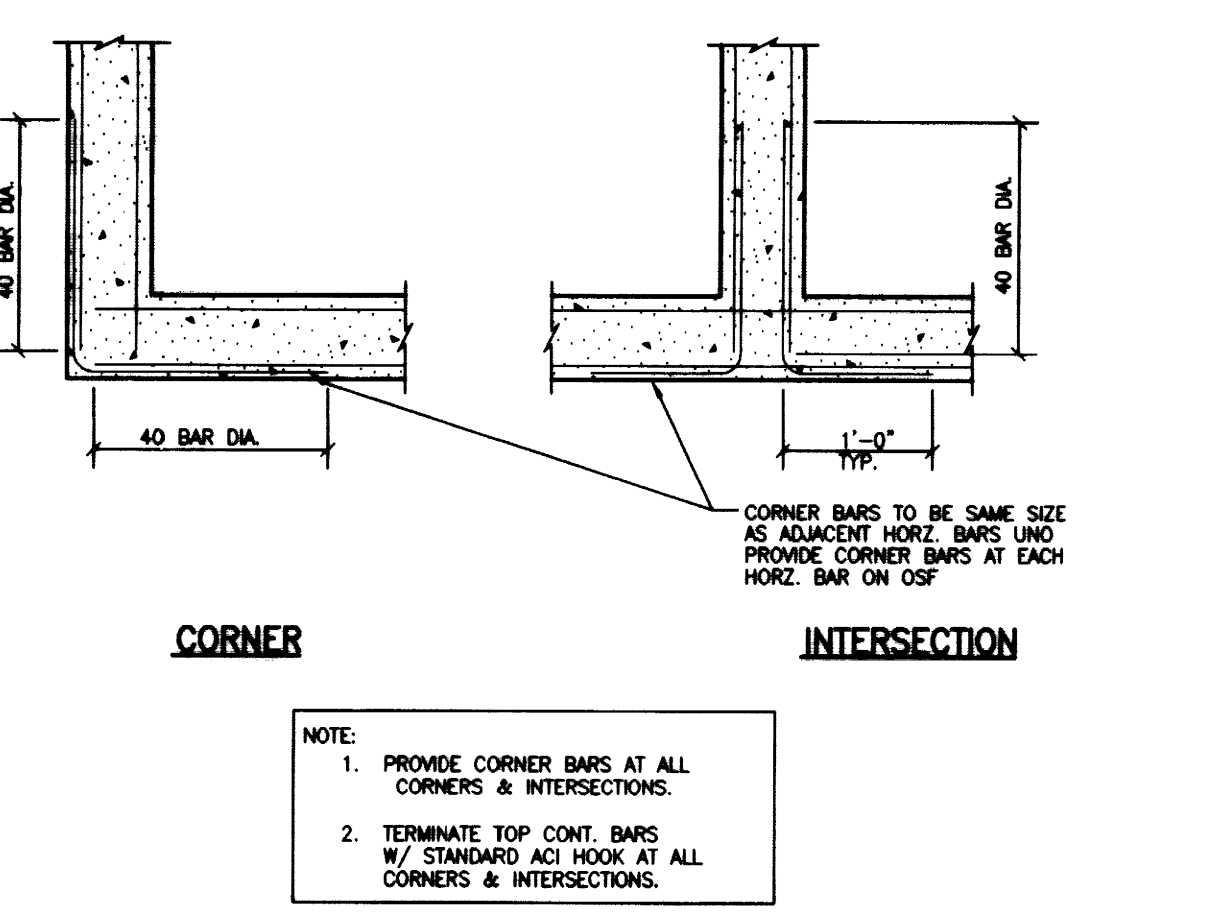
OPENINGS 21" AN SMALLER DIAGONAL



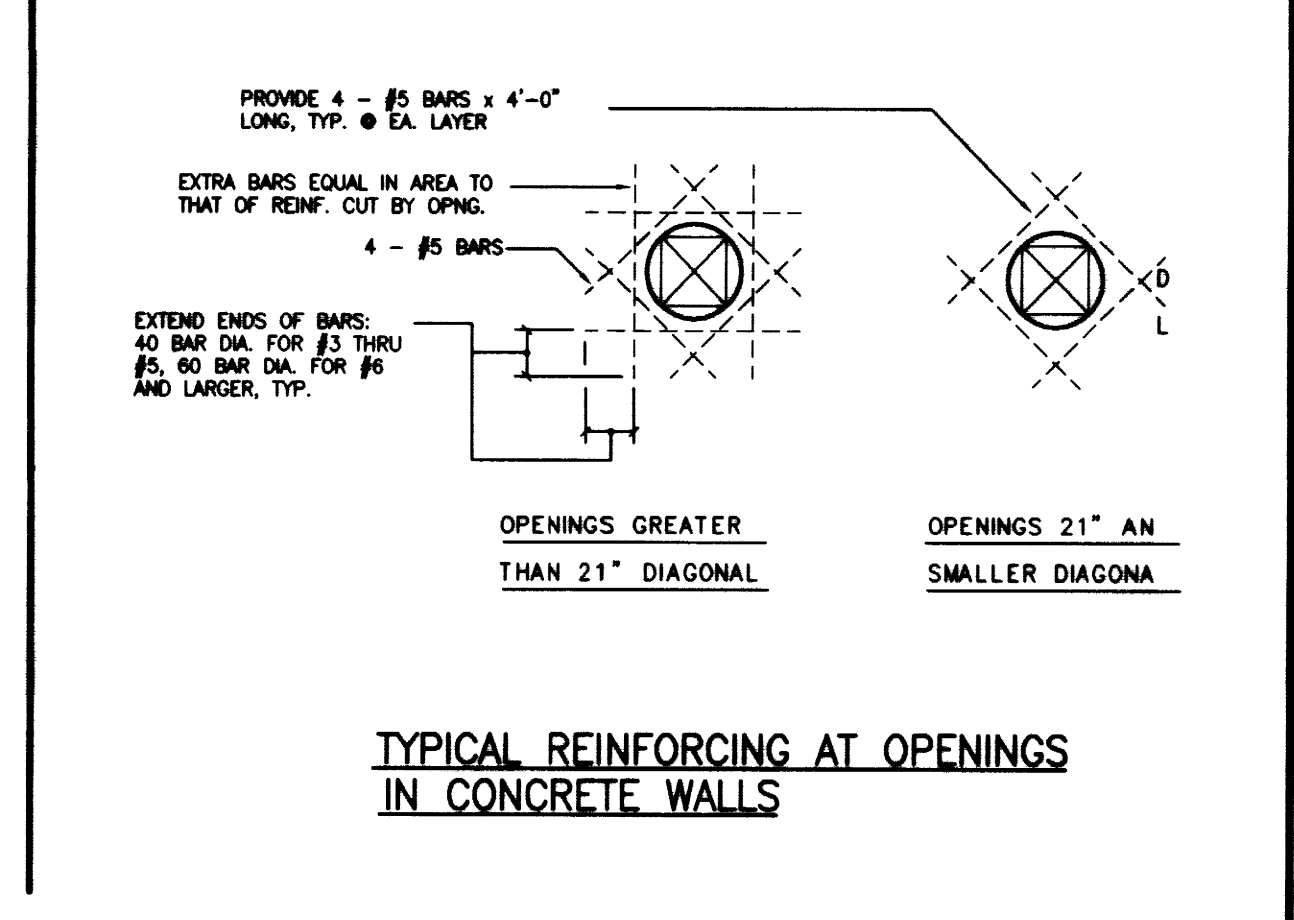
**SECTION 4**  
SCALE: 3/4" = 1'-0"



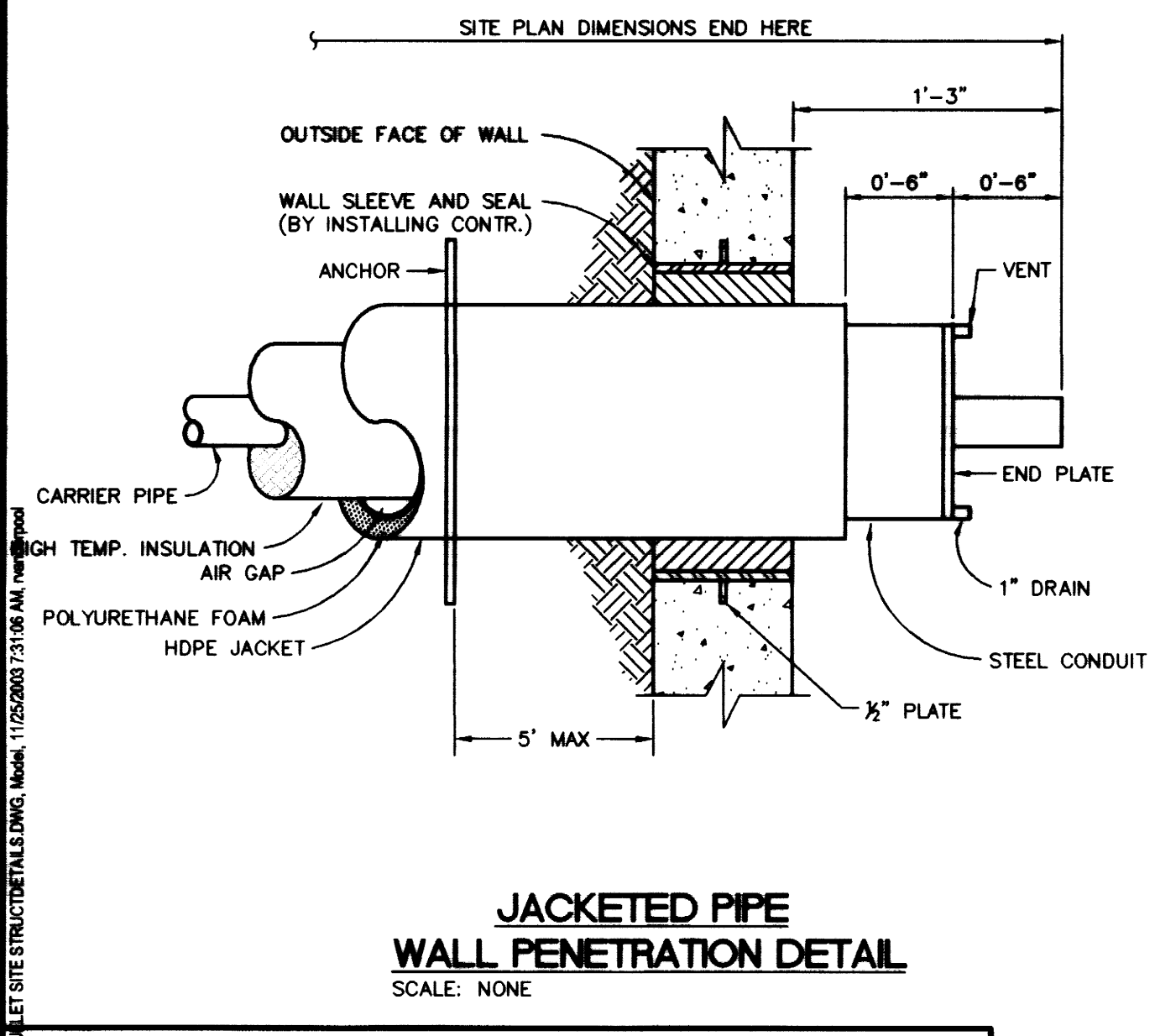
**SECTION 2**  
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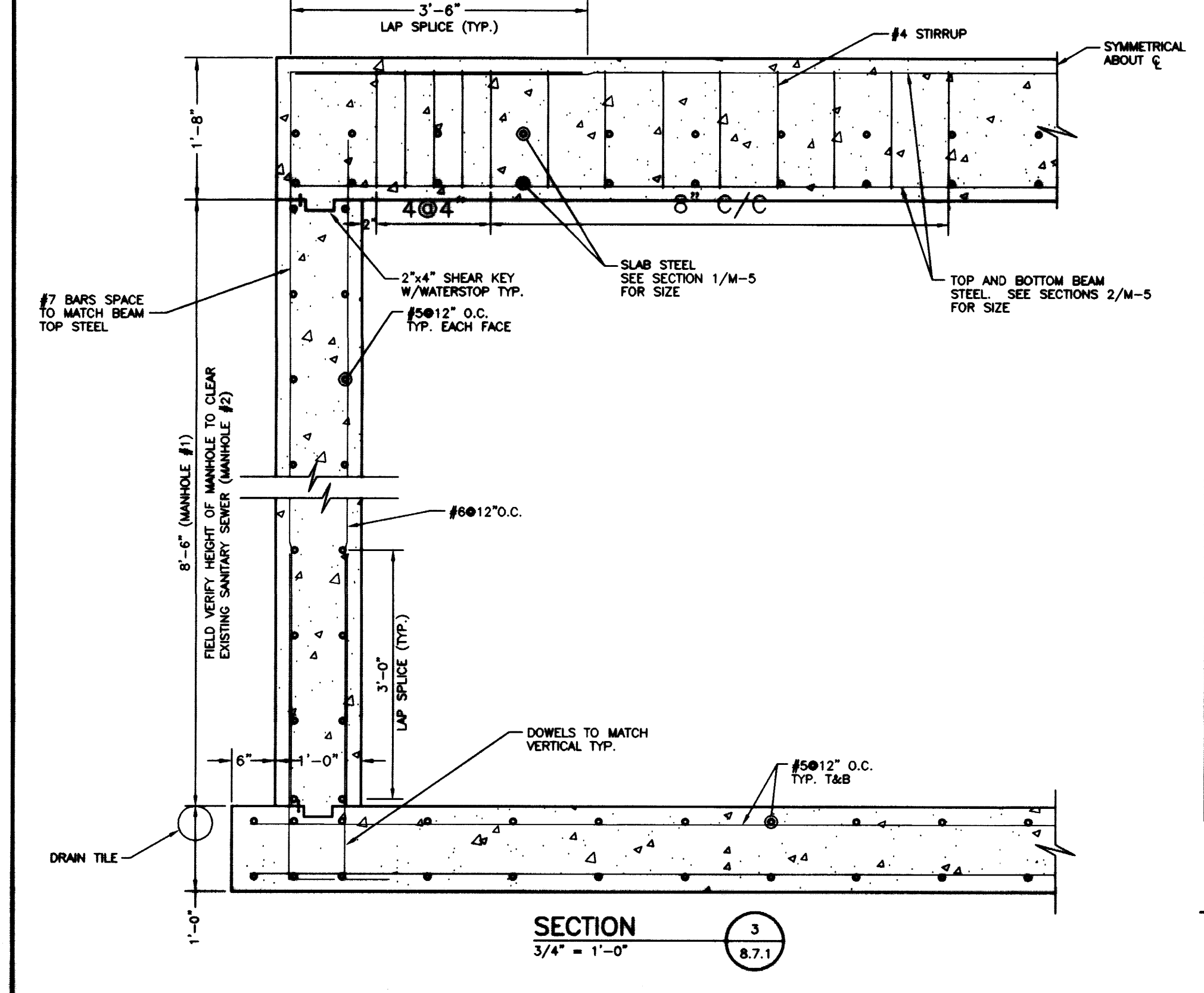
**CORNER INTERSECTION**



**TYPICAL REINFORCING AT OPENINGS IN CONCRETE WALLS**



**JACKETED PIPE WALL PENETRATION DETAIL**  
SCALE: NONE



**SECTION 3**  
SCALE: 3/4" = 1'-0"

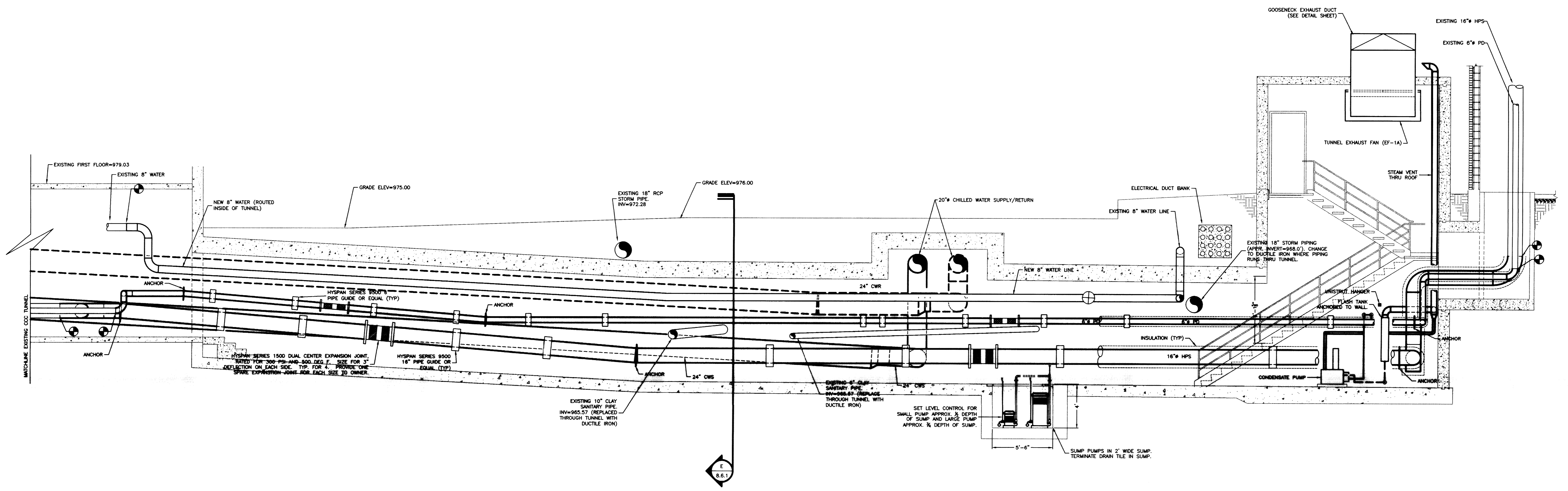
**HUGUELET SITE STRUCTURAL DETAILS**

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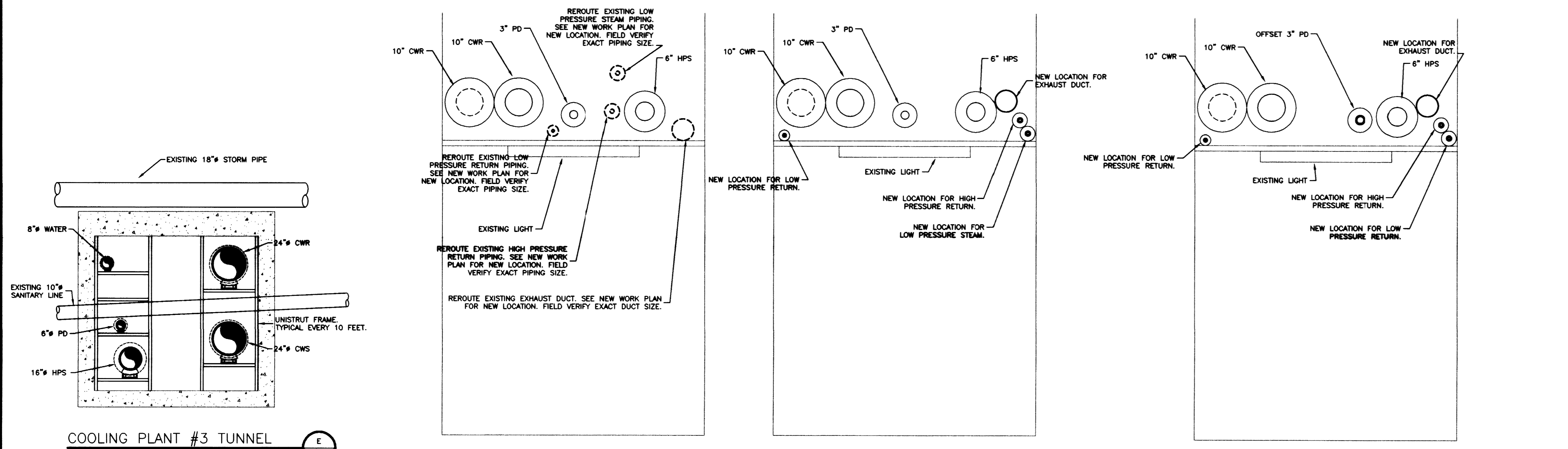
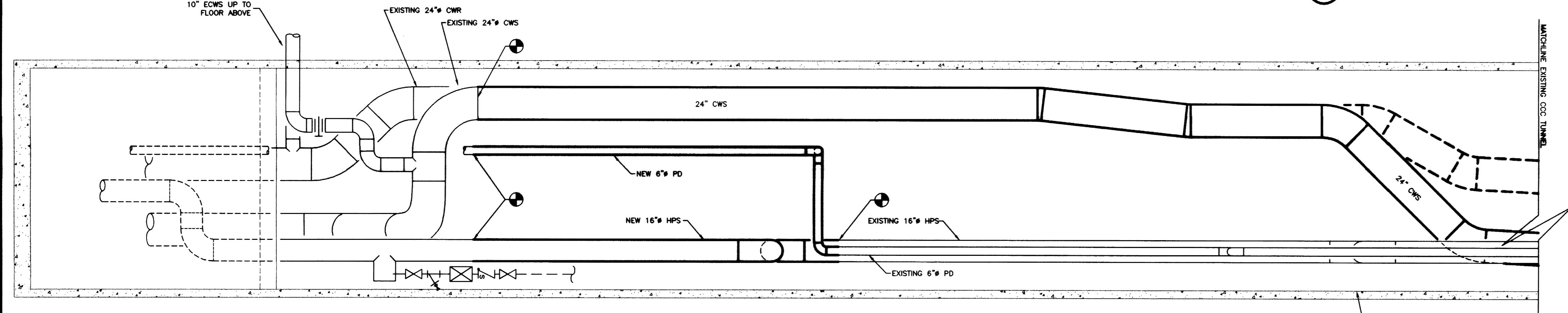
**STAGGS & FISHER CONSULTING ENGINEERS, INC.**  
2384 Lexington Drive, Lexington, Kentucky 40517  
(606) 253-7000  
FAX (606) 253-7001  
www.staggsandfisher.com

**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: MPO  
CHECKED BY: COG  
REVISED:  
DATE: 11/14/01 STEAM R  
SHEET NUMBER 8.7.1  
PROJECT NUMBER 99024.02  
C-1 25396



COOLING PLANT #3 TUNNEL SECTION  
SCALE: 1/4"=1'-0"



COOLING PLANT #3 TUNNEL  
SCALE: 1/4"=1'-0"

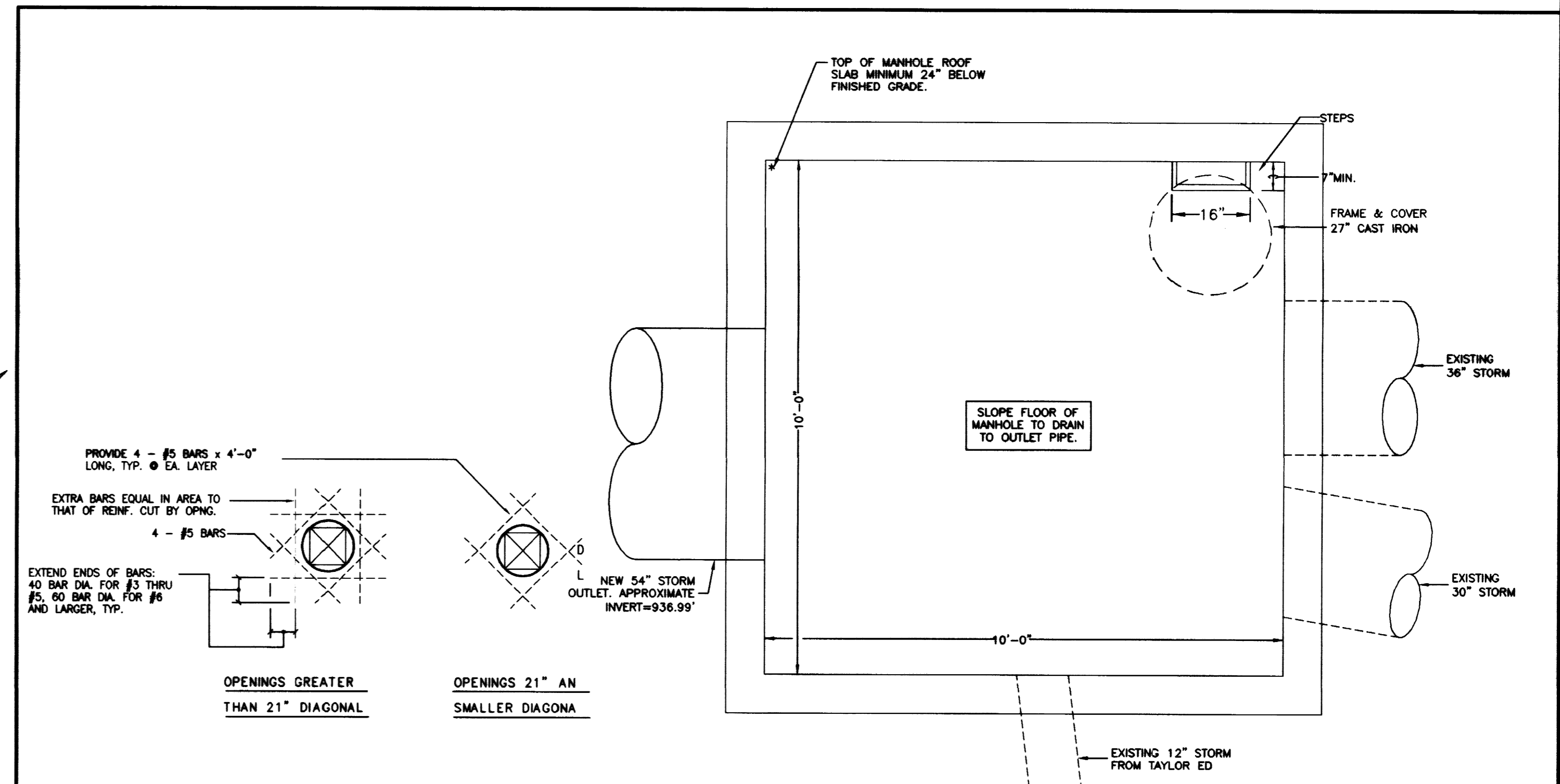
DEMOLITION

NEW WORK

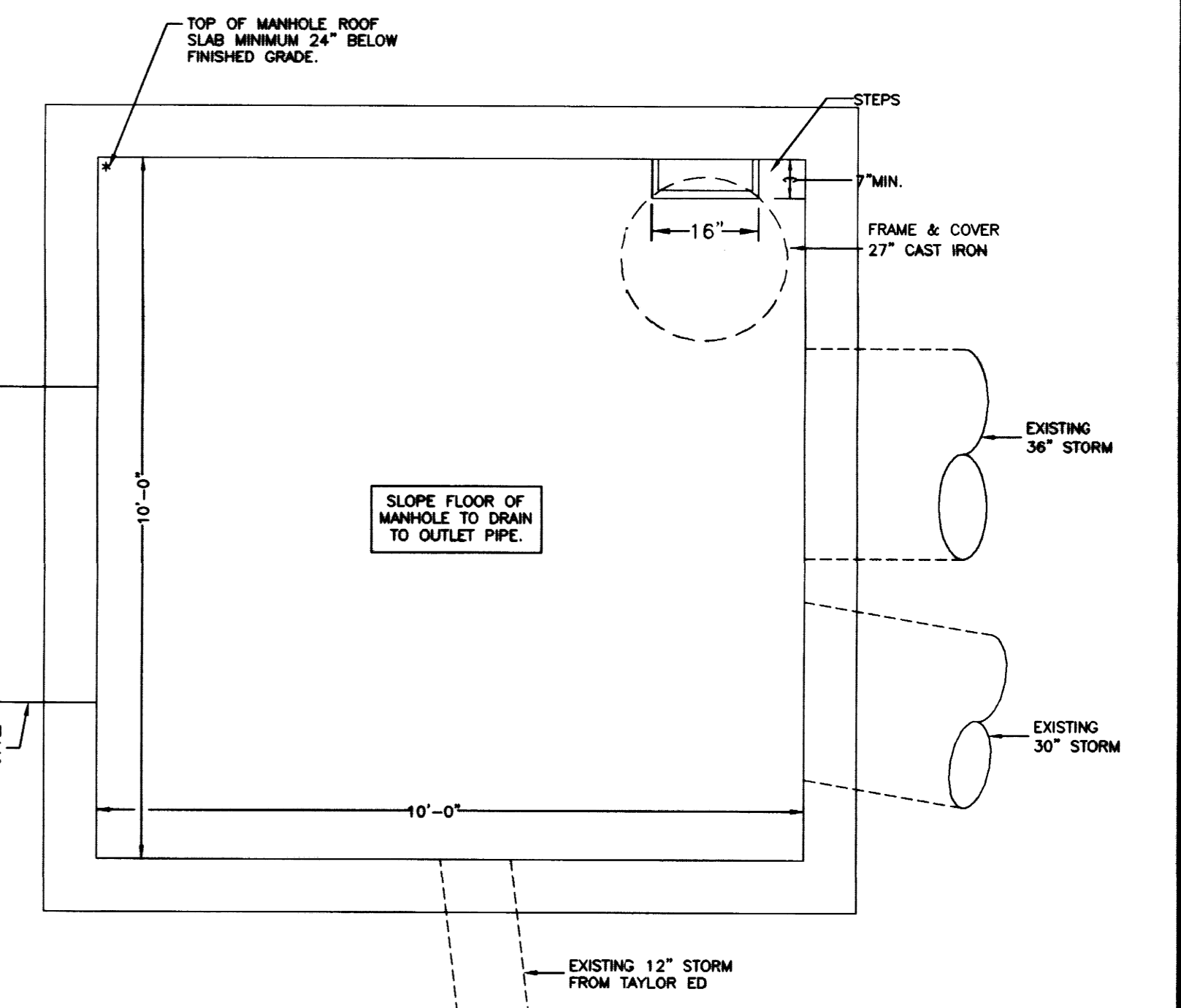
NEW WORK

SECTION "A"  
SCALE: 1/2"=1'-0"

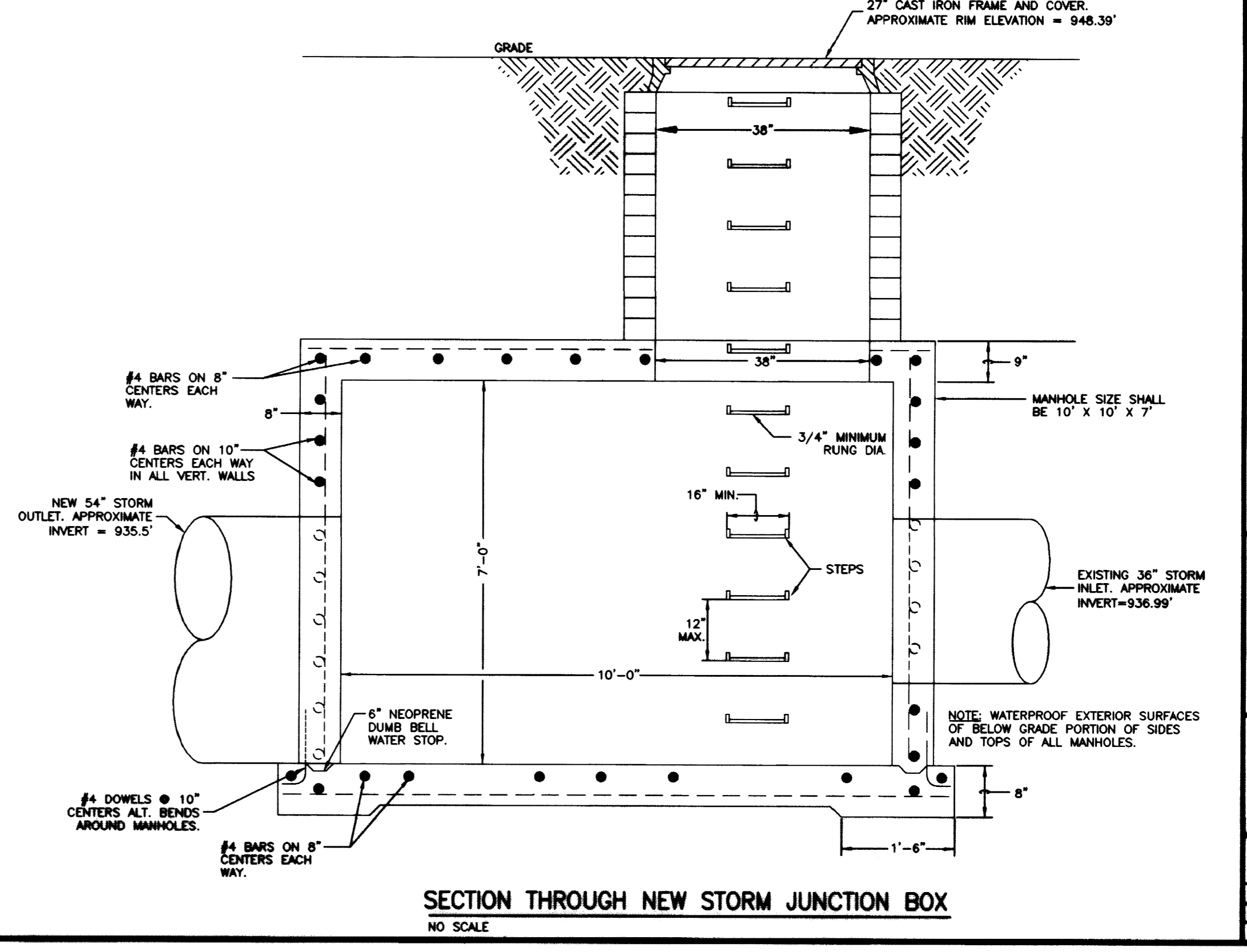
SECTION "B"  
SCALE: 1/2"=1'-0"



TYPICAL REINFORCING AT OPENINGS  
IN CONCRETE WALLS



PLAN - NEW STORM JUNCTION BOX  
NO SCALE



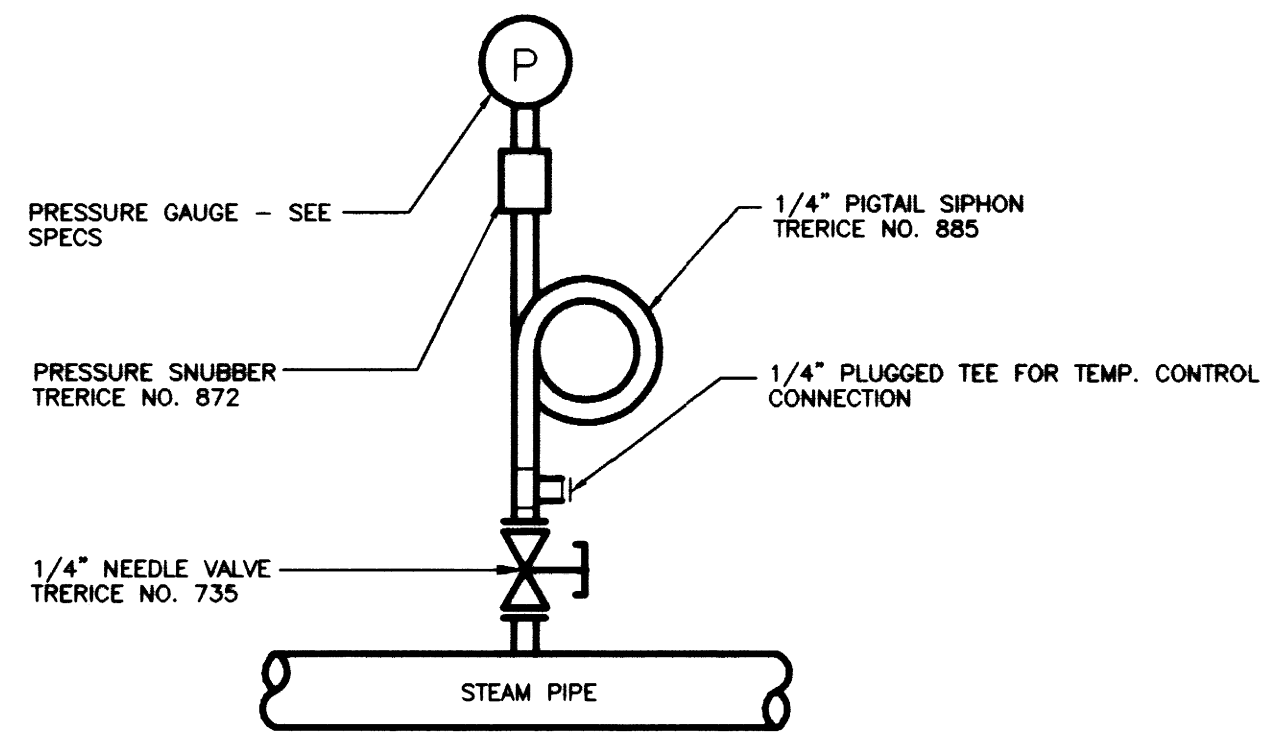
SECTION THROUGH NEW STORM JUNCTION BOX  
NO SCALE

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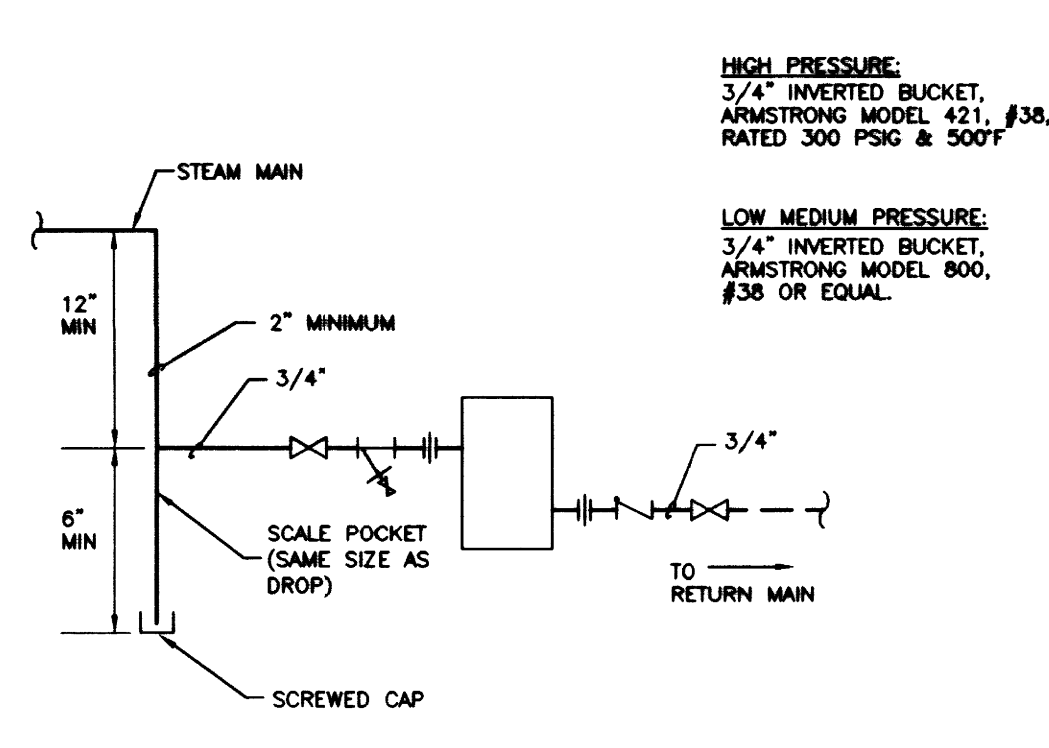
RECORD DRAWINGS DATE 11/10/03  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

H.V.A.C. SECTIONS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

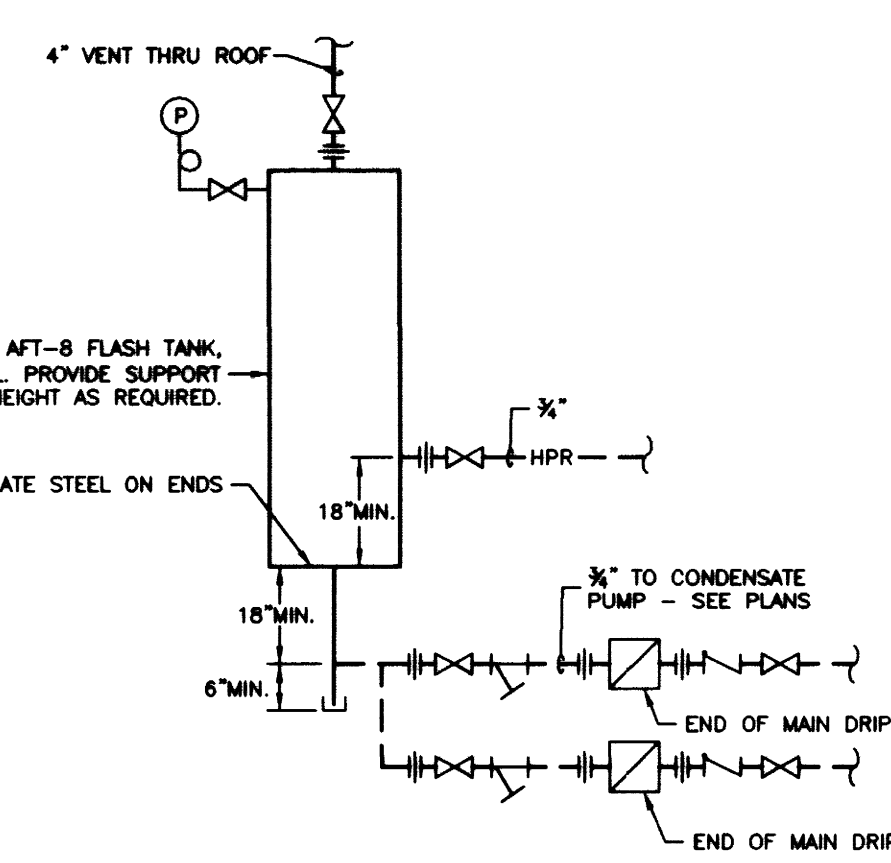
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DATE: DECEMBER, 2000  
DRAWN BY: MFG  
CHECKED BY: CCK  
REVISED: DATE  
SHEET NUMBER  
8.8.1  
PROJECT NUMBER  
98024.02



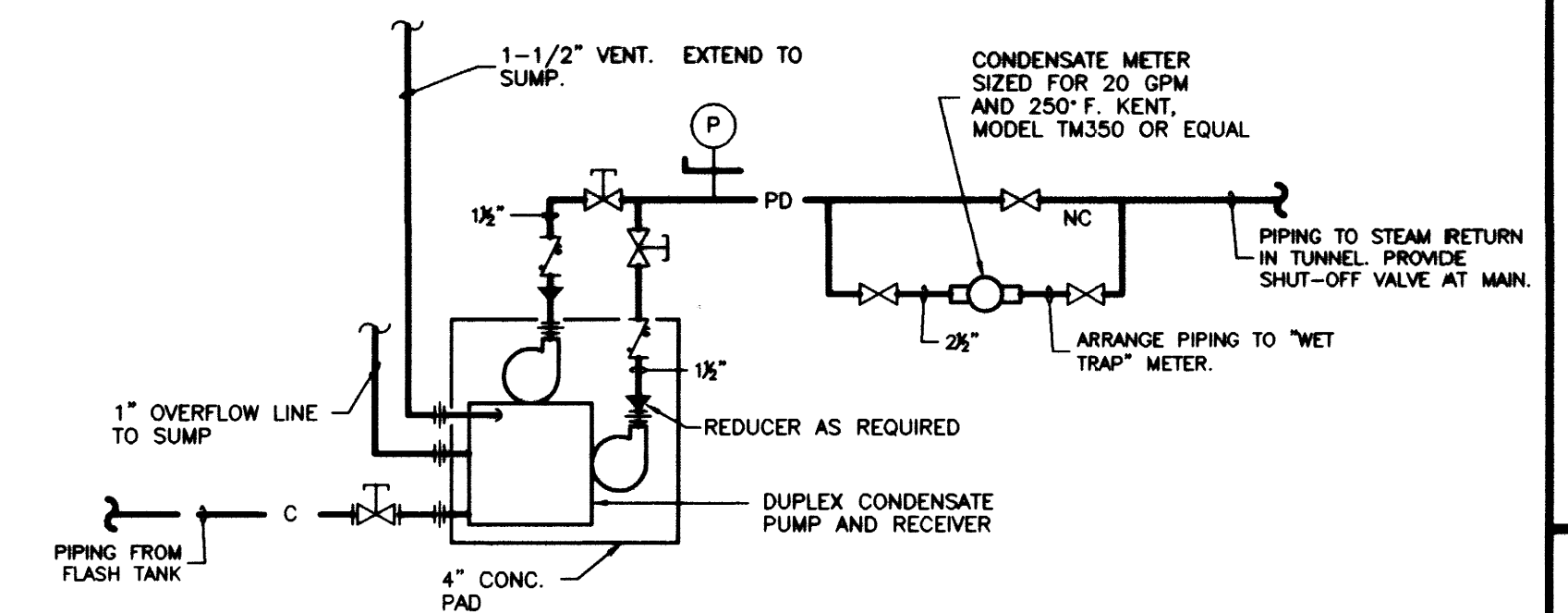
**STEAM PRESSURE GAUGE INSTALLATION**  
NO SCALE



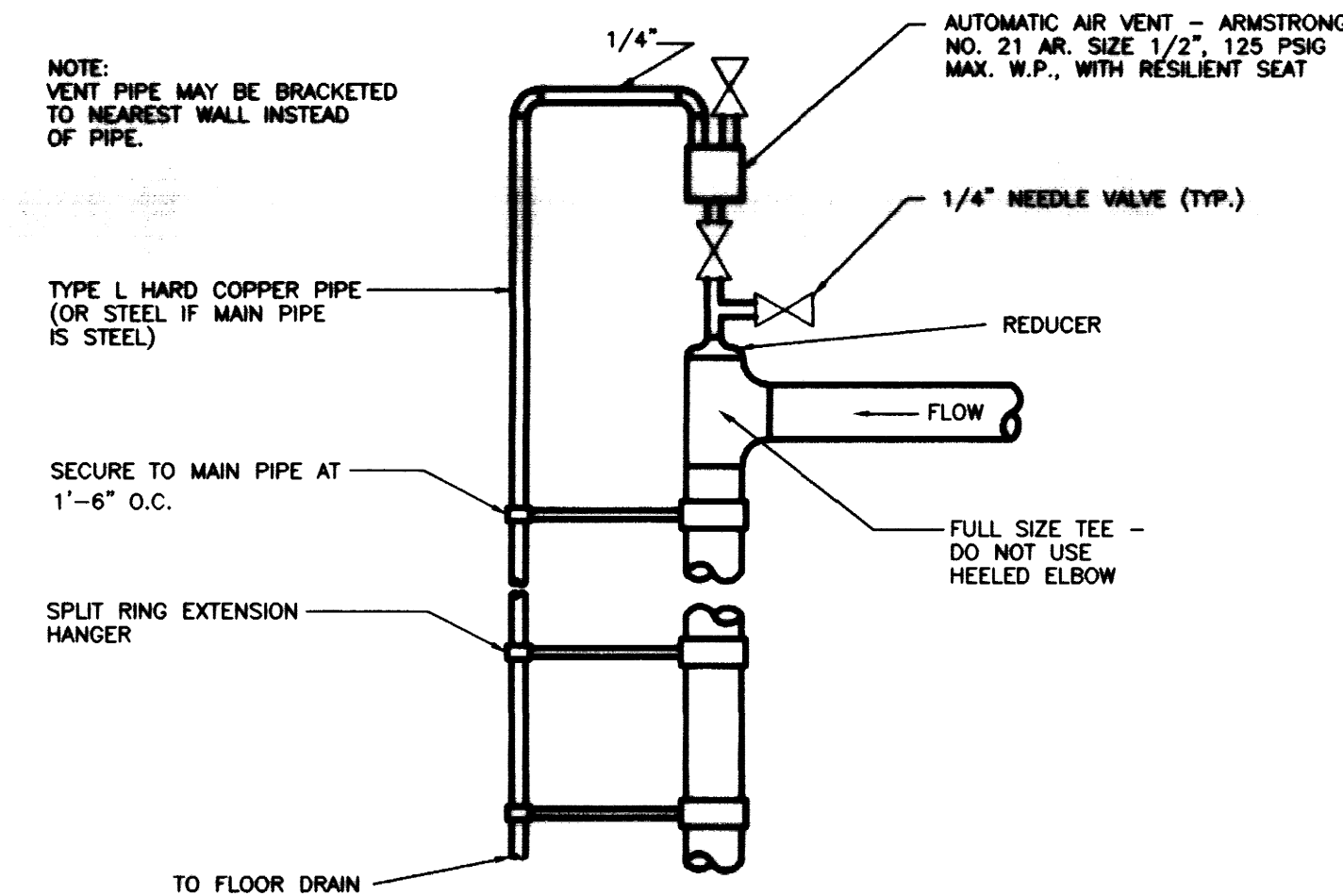
**END OF MAIN DRIP DETAIL**  
NO SCALE



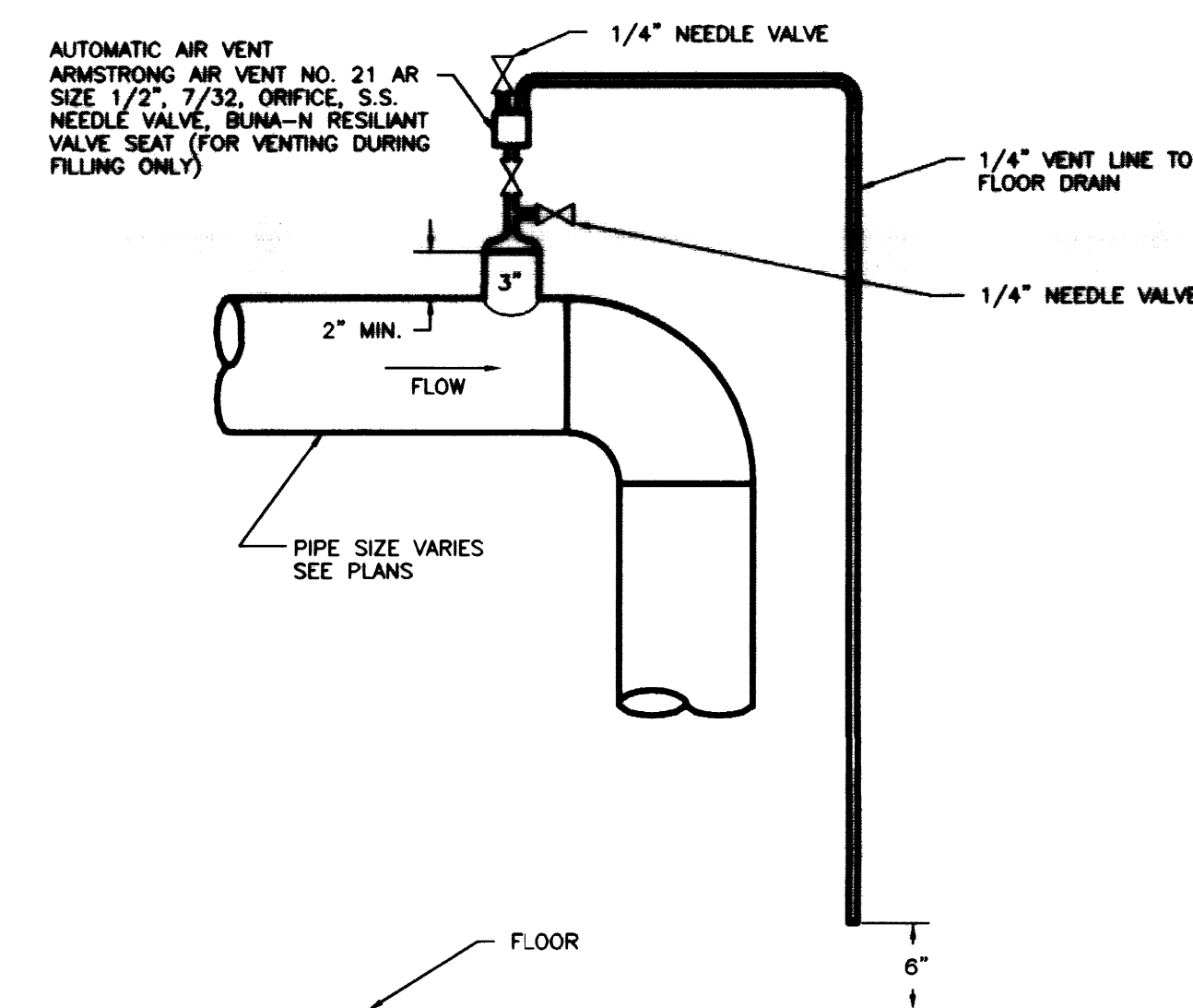
**FLASH TANK PIPING DETAIL**  
NO SCALE



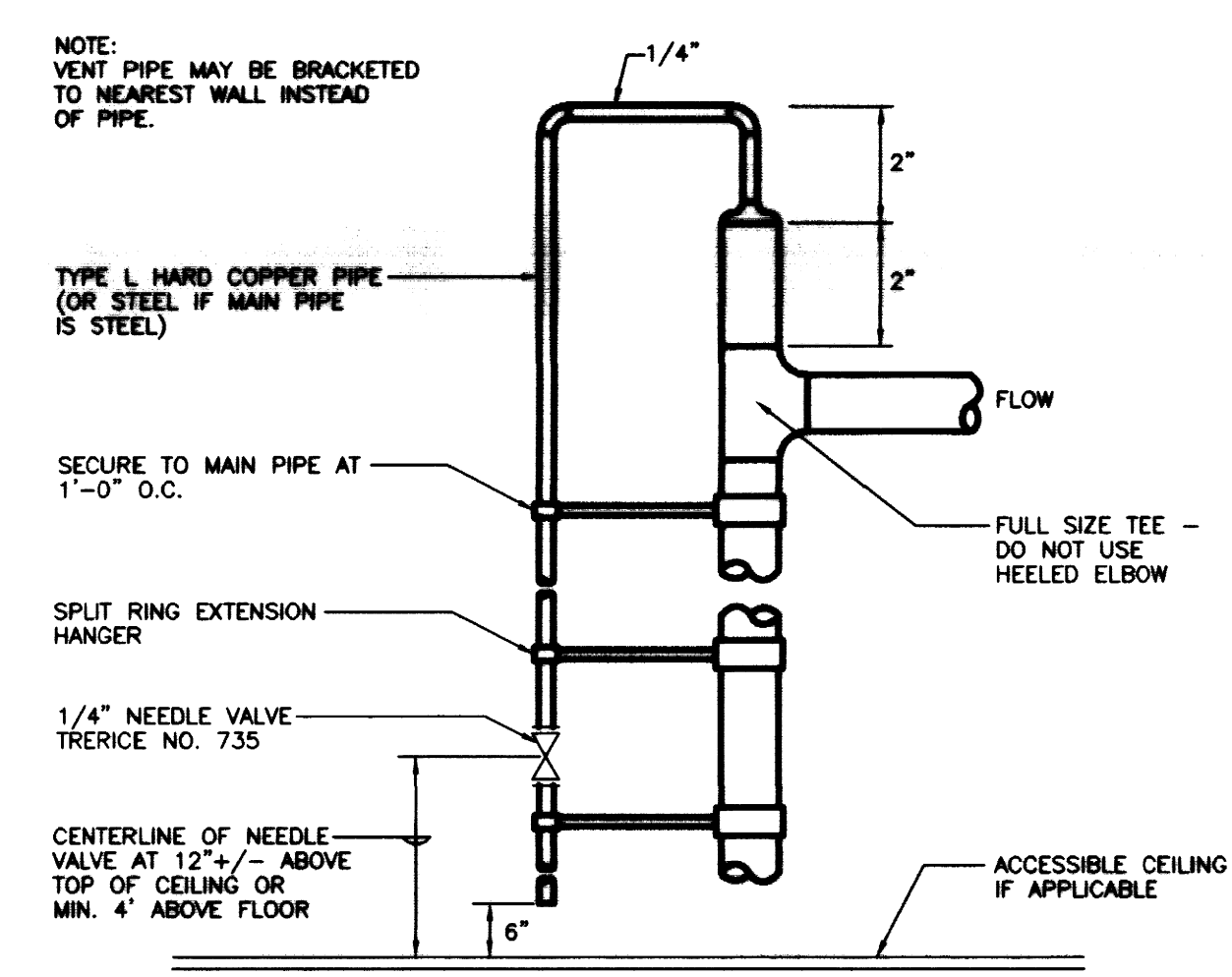
**CONDENSATE PUMP PIPING DIAGRAM**  
NO SCALE



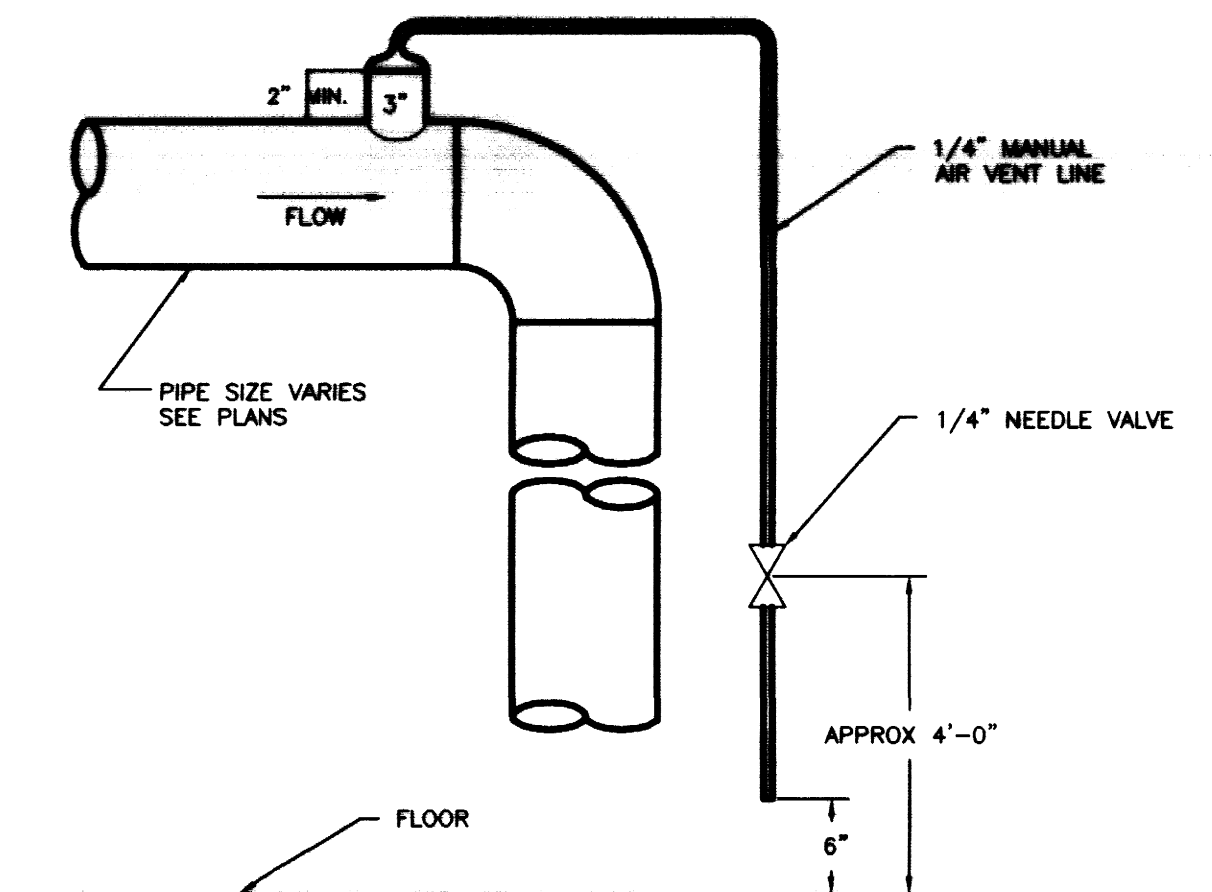
**AUTOMATIC AIR VENT DETAILS - 3" & SMALLER**  
NO SCALE



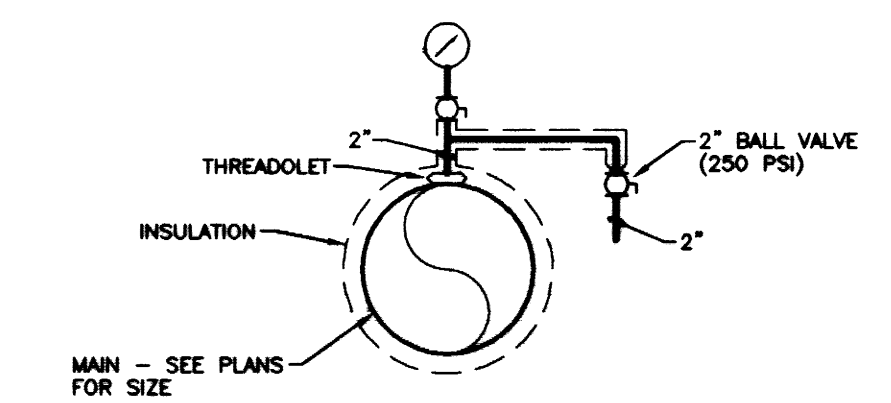
**AUTOMATIC AIR VENT DETAIL - PIPES 4" AND LARGER**  
NO SCALE



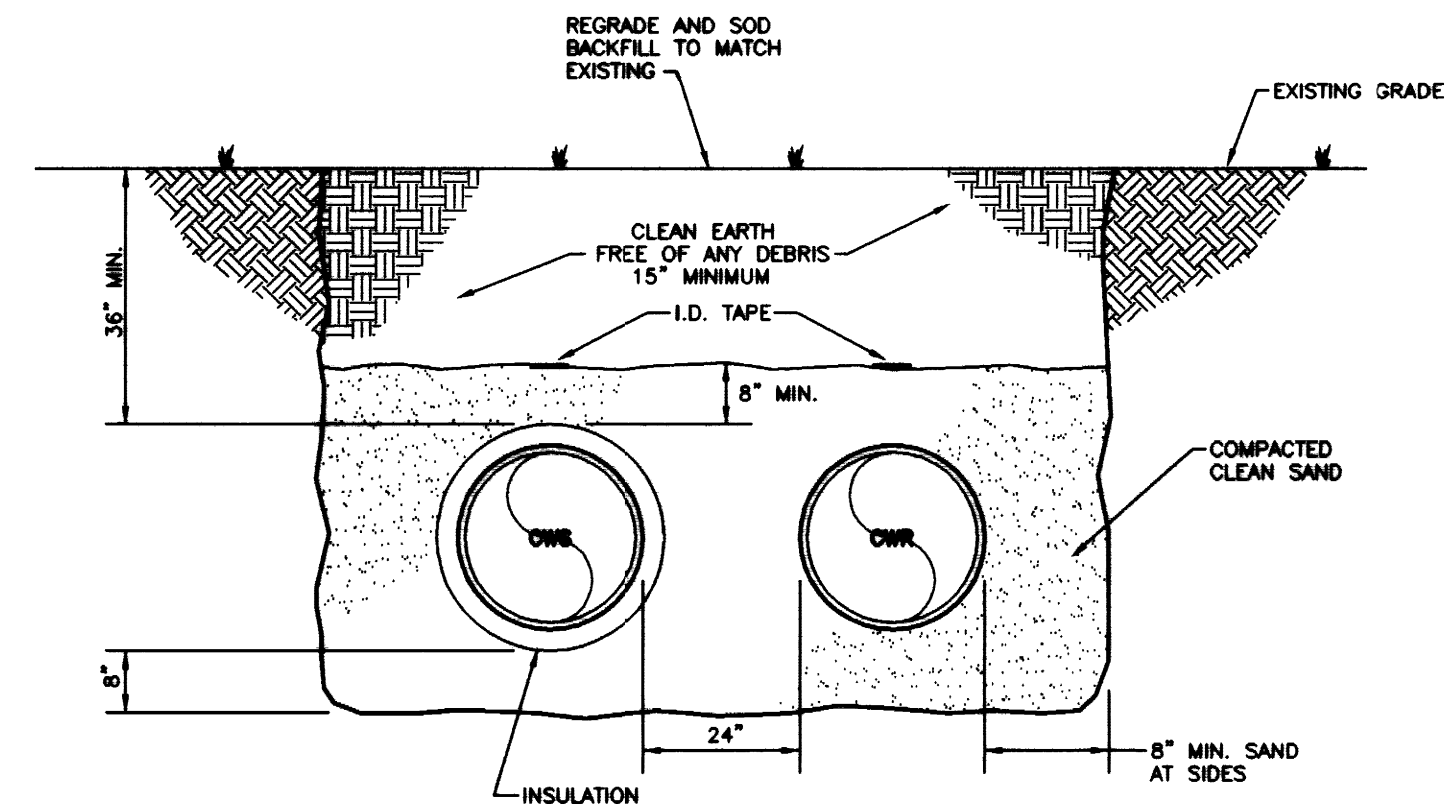
**MANUAL AIR VENT DETAIL - PIPES 3" AND SMALLER**  
NO SCALE



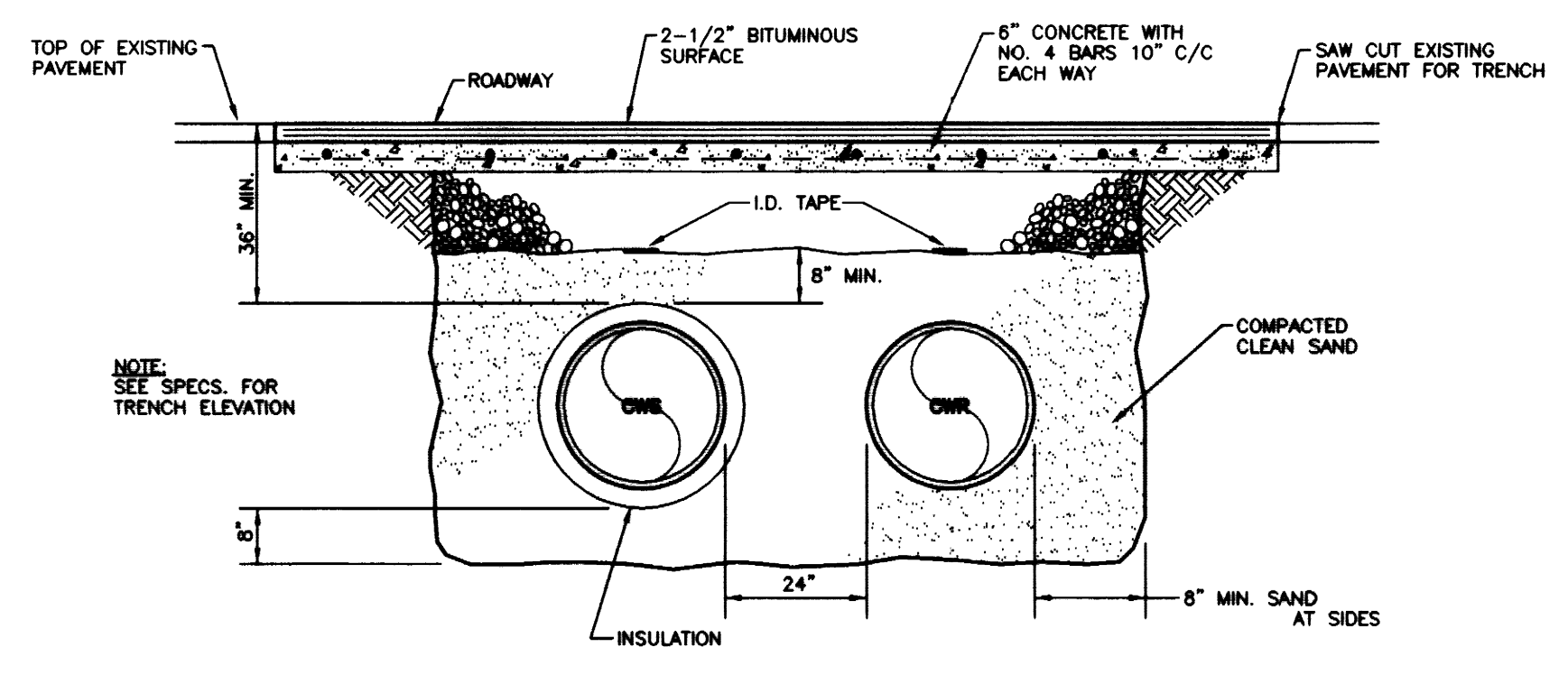
**MANUAL AIR VENT DETAIL - PIPES 4" AND LARGER**  
NO SCALE



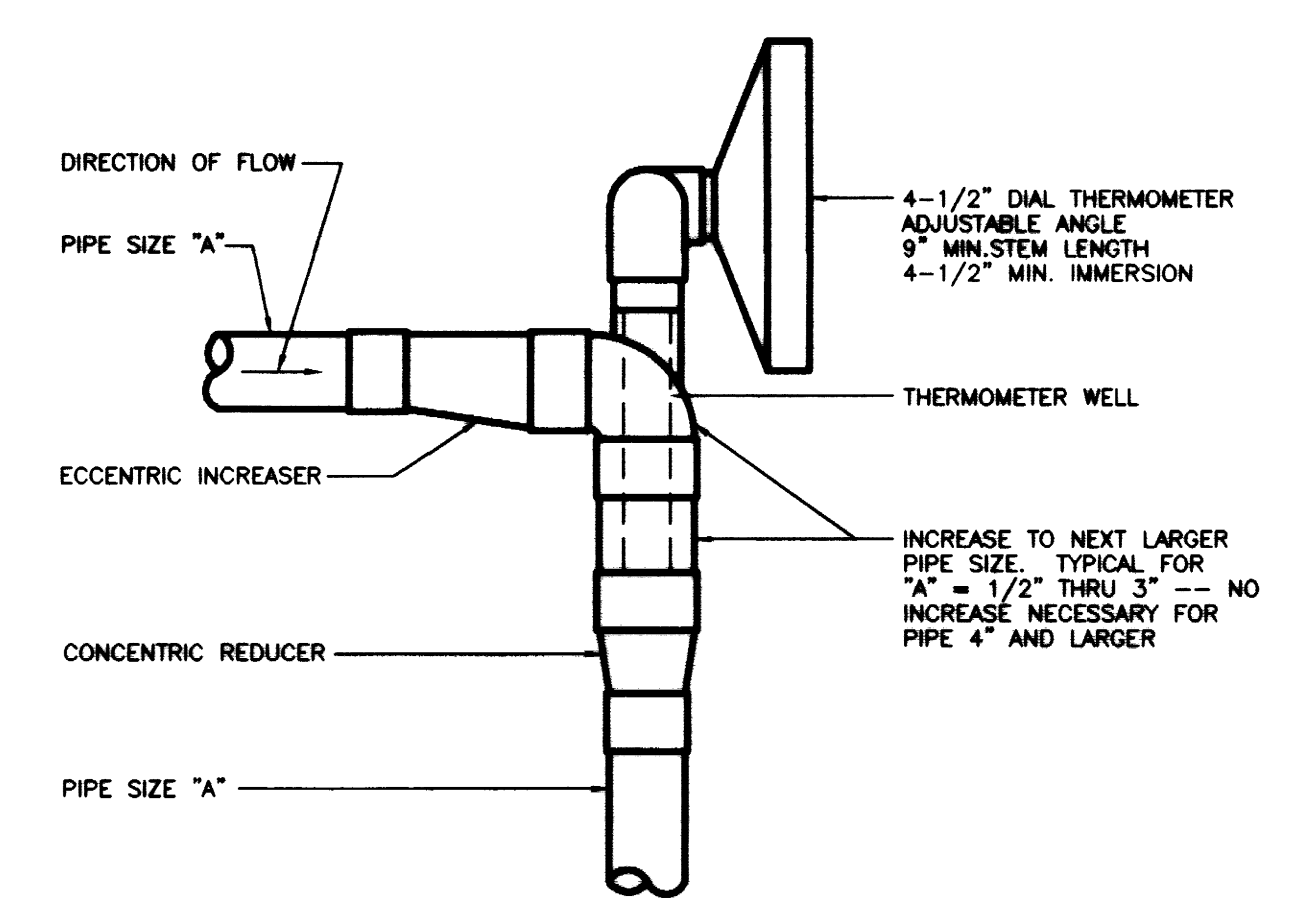
**TYPICAL CHILLED WATER MANUAL AIR VENT & PRESSURE GAUGE**  
NO SCALE



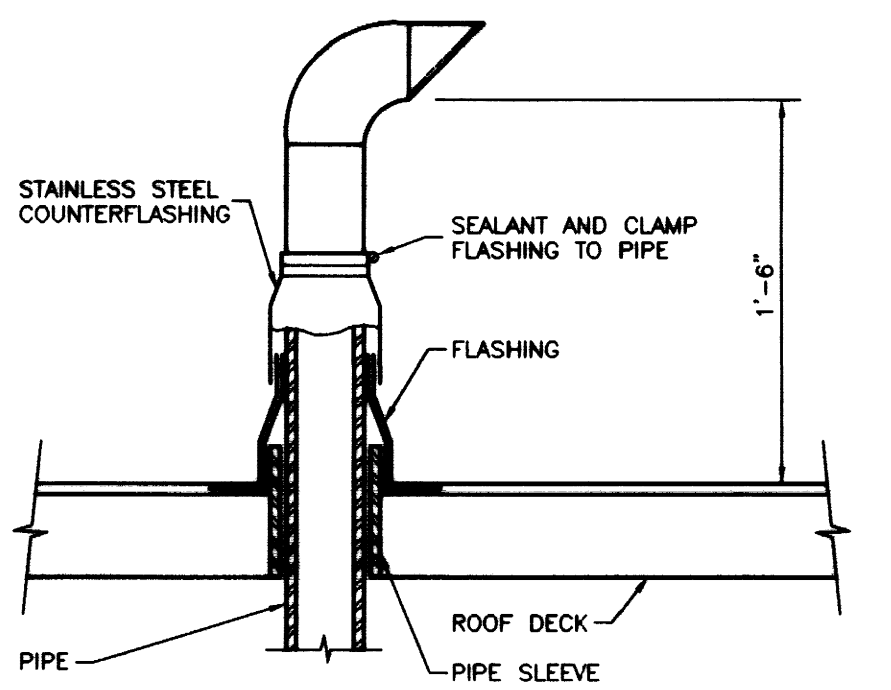
**TYPICAL SECTION CWS/CWR UNDER SOD**  
NO SCALE



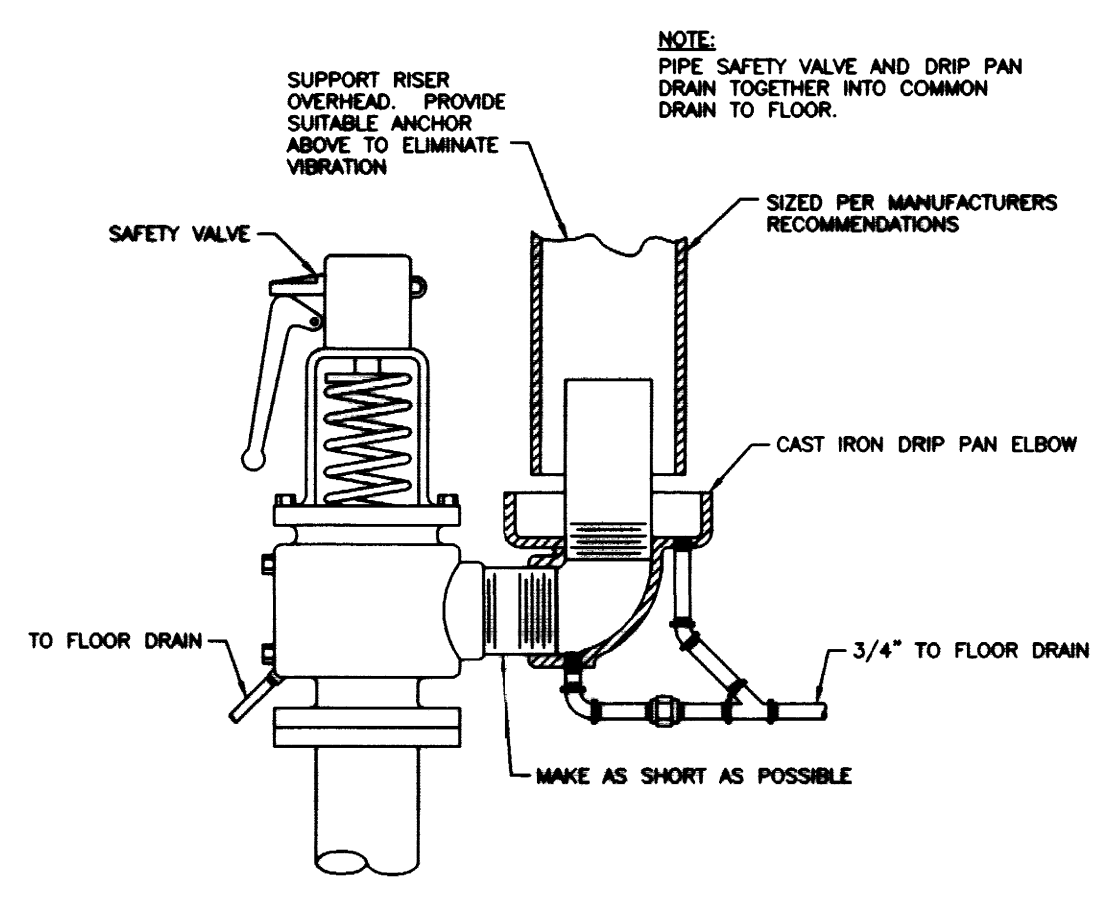
**TYPICAL SECTION CWS/CWR UNDER ASPHALT**  
NO SCALE



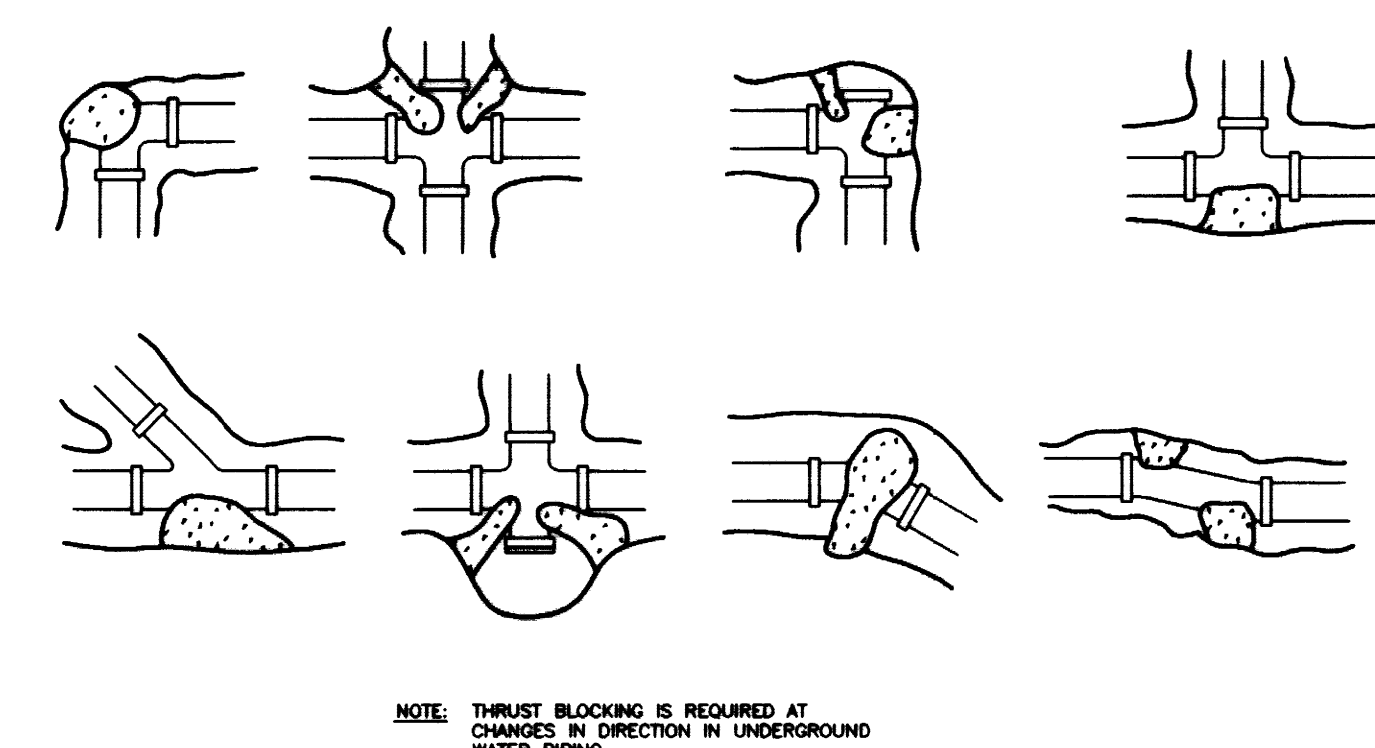
**PIPE THERMOMETER INSTALLATION DETAIL**  
NO SCALE



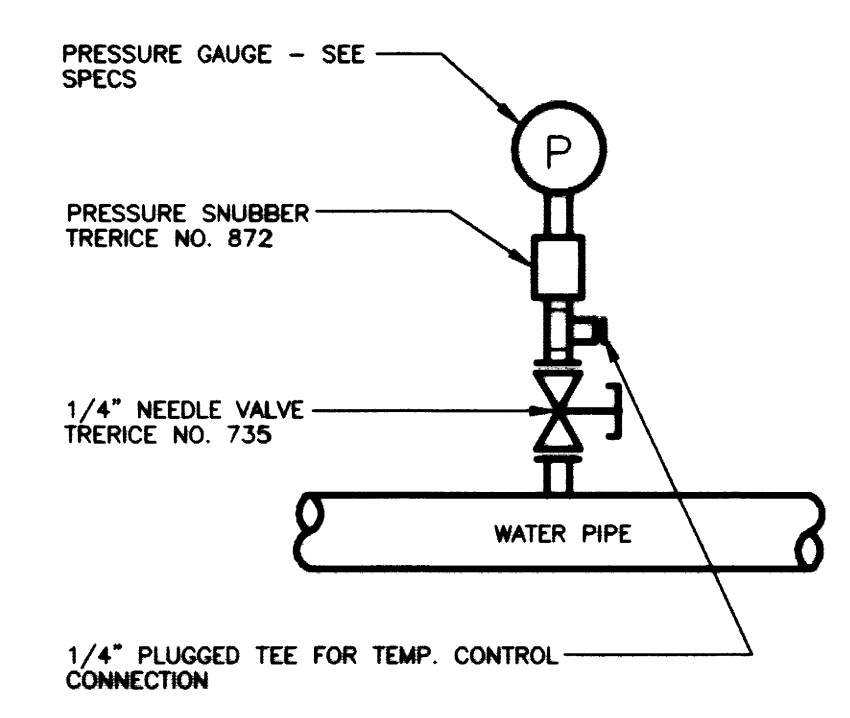
**DETAIL OF PIPE PENETRATION THRU ROOF**  
NO SCALE



**DRIP PAN ELBOW INSTALLATION**  
NO SCALE



**THRUST BLOCK DETAIL**  
NO SCALE



**WATER PRESSURE GAUGE INSTALLATION**  
NO SCALE

RECORD DRAWINGS DATE 11/10/03  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

**CJMW**  
CHRISMAN - MILLER - WOODFORD - INC.  
CONSULTING ENGINEERS  
308 S. BROADWAY  
LEXINGTON, KENTUCKY 40502

**SEF**  
Staggs and Fisher  
Consulting Engineers, Inc.  
Lexington, Kentucky 40517

REGISTERED PROFESSIONAL ENGINEER  
STATE OF KENTUCKY  
No. 10000  
KENTON W. FISHER

DESIGNED BY: [Name]  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
DATE: [Date]

H.V.A.C. DETAILS  
UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

SHEET PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: CCK  
CHECKED BY: CCK  
REVISED: [Date]  
DATE  
SHEET NUMBER  
8.9.1  
PROJECT NUMBER  
99024.02  
174 C-1 25498



**CODED NOTES:**

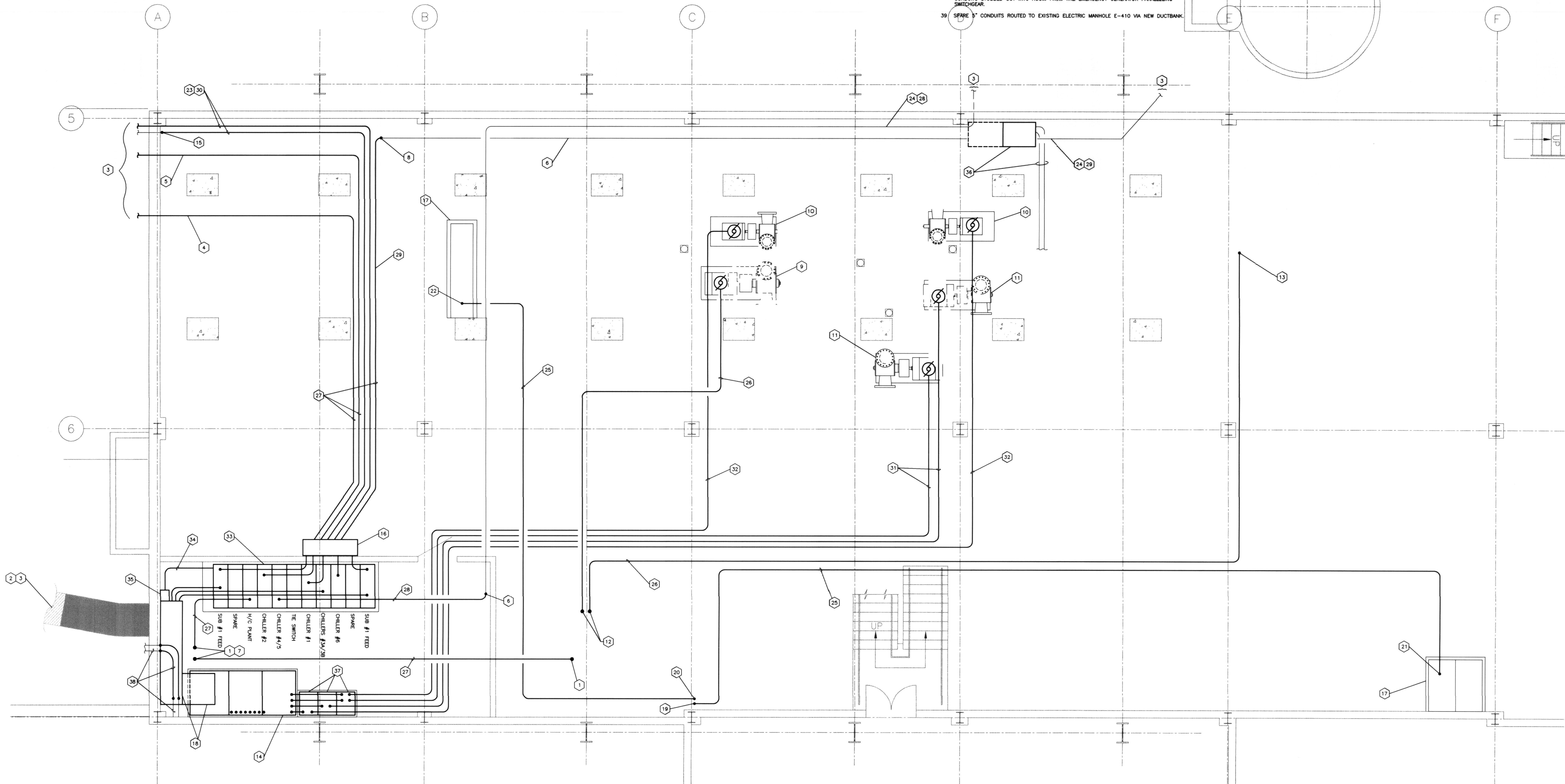
- 1 TO NEW 15KV SWITCHES ON FIRST FLOOR FOR NEW PRIMARY FEEDS TO THE UNIT SUBSTATION ABOVE.
- 2 TO NEW CHILLER TRANSFORMER OUTSIDE BUILDING.
- 3 SEE SHEET 9.1.3 FOR CONTINUATION.
- 4 NEW PRIMARY FEED TO CHILLER #1 TRANSFORMER.
- 5 NEW PRIMARY FEED TO CHILLER #2 TRANSFORMER.
- 6 EXISTING CONDUIT FOR CHILLER #4/5 TRANSFORMER PRIMARY TO BE REUSED. INTERCEPT AND EXTEND CONDUIT TO NEW 15KV SWITCHES.
- 7 SPLICE EXISTING FEED TO UNIT SUBSTATION ON FIRST FLOOR AND TEMPORARILY FEED SUBSTATION UNTIL NEW 15KV SWITCHBOARD IS IN PLACE AND OPERATIONAL. THEN RECONNECT SUBSTATION TO NEW SWITCH AS INDICATED.
- 8 EXISTING CONDUIT FOR CHILLER #6 TRANSFORMER TO BE REUSED. INTERCEPT AND EXTEND CONDUIT TO NEW 15KV SWITCHBOARD.
- 9 NEW SECONDARY CHILL WATER PUMP, PU-2, 300 HP, 480 V, 3 #.
- 10 NEW PRIMARY CHILL WATER PUMP, PU-1, 50 HP, 480 V, 3 #.
- 11 NEW COOLING TOWER PUMP, PU-3, 200 HP, 480 V, 3 #.
- 12 UP TO PUMP VARIABLE SPEED DRIVE ON FIRST FLOOR. SEE SHEET 9.1.3 FOR LOCATION.
- 13 UP TO EXISTING SWITCHBOARD P ON FIRST FLOOR.
- 14 NEW 480 VOLT SWITCHBOARD "MDP" FOR NEW CHILLER LOADS.
- 15 EXTEND EXISTING SPARE CONDUIT FROM MANHOLE #409 TO NEW 15KV SWITCHBOARD.
- 16 NEW PULL BOX MOUNTED ON WALL TO FACILITATE CABLING FROM 15KV SWITCHES.
- 17 EXISTING PUMP MOTOR CONTROL CENTER.
- 18 NEW RECTANGULAR WIREWAY MOUNTED TO WALL TO ACCOMMODATE CABLING FROM TRANSFORMER DUCTBANK OUTSIDE OF BUILDING. ATTACH TO HIGH HAT FROM 480 VOLT SWITCHBOARD TO FACILITATE PASSING OF CABLING TO SWITCHBOARD.

**CODED NOTES:**

- 19 UP TO NEW MOTOR CONTROL CENTER, MCC-9A, ON MEZZANINE LEVEL. SEE SHEET 9.1.5 FOR LOCATION.
- 20 UP TO NEW MOTOR CONTROL CENTER, MCC-9B, ON MEZZANINE LEVEL. SEE SHEET 9.1.5 FOR LOCATION.
- 21 REPLACE SPARE MOTOR STARTER WITH A 400 AMP SWITCH FUSED AT 350 AMPS AND CONNECT TO FEEDER FOR NEW MOTOR CONTROL CENTER MCC-9A.
- 22 REPLACE SPARE SWITCH WITH A 400 AMP SWITCH FUSED AT 350 AMPS AND CONNECT TO FEEDER FOR NEW MOTOR CONTROL CENTER MCC-9B.
- 23 3 #500 MCM (15KV) AND 1 #500 MCM (600V) GROUND IN 5" RIGID CONDUIT.
- 24 3 #4/0'S (15KV) AND 1 #4/0 (600V) GROUND IN EXISTING CONDUIT.
- 25 4 #3/0'S AND 1 #4 GROUND IN EACH OF (2) 2" CONDUITS.
- 26 4 #4/0'S AND 1 #4 GROUND IN EACH OF (2) 2-1/2" CONDUIT.
- 27 3 #4/0'S (15KV) AND 1 #4/0 (600V) GROUND IN 4" RIGID CONDUIT.
- 28 NEW PRIMARY FEED TO CHILLER #4/5 TRANSFORMER.
- 29 NEW PRIMARY FEED TO CHILLER #6 TRANSFORMER.
- 30 NEW INCOMING FEED TO 15KV SWITCHBOARD OUTSIDE BUILDING.
- 31 3 #350 MCM'S AND 1 #2 GROUND IN 2-1/2" CONDUIT.
- 32 4 #2'S AND 1 #6 GROUND IN 1-1/4" CONDUIT.
- 33 NEW 15KV SWITCH LINEUP.
- 34 2 #4/0 BARE GROUNDING CABLES IN 2" CONDUIT TO NEW TRANSFORMER DUCTBANK. CONNECT GROUNDING CABLES TO SWITCHGEAR GROUND BUS, ONE EACH END.
- 35 NEW JUNCTION BOX FOR ROUTING OF GROUNDING CABLES TO DUCTBANK. SIZE AS REQUIRED.
- 36 NEW EXTENSION ONTO EXISTING JUNCTION BOX TO FACILITATE MOVING EXISTING SWITCHGEAR ON FIRST FLOOR. SEE SHEET 9.1.3. SHORTEN EXISTING FEEDER TO MOTOR CONTROL CENTER AS NECESSARY.
- 37 MOTOR STARTERS FOR PUMP UNITS PU-1A, 1B, 3A, & 3B. STARTERS SHALL BE PWRP WITH 2 SETS OF AUXILIARY CONTACTS, COMBINATION DISCONNECT, "AUTO-OFF-HAND" CONTROL SWITCH, AND LED FLOT LIGHTS. STARTERS SHALL BE MOUNTED IN A NEMA RATED CABINET.
- 38 CONNECT EXISTING DUCTBANK CONSISTING OF TWO 5" CONDUITS TO THE EXISTING 5" CONDUITS STUBBED OUT INTO ROOM FROM THE EMERGENCY GENERATOR PARALLELING SWITCHGEAR.
- 39 SPARE 5" CONDUITS ROUTED TO EXISTING ELECTRIC MANHOLE E-410 VIA NEW DUCTBANK.

**ROOM SCHEDULE**

ROOM NUMBER	ROOM NAME
8008A	EXHIBITOR LOBBY
8008B	EXHIBITOR LOBBY
8008C	EXHIBITOR LOBBY
8008D	EXHIBITOR LOBBY
8008E	EXHIBITOR LOBBY
8008F	EXHIBITOR LOBBY
8008G	EXHIBITOR LOBBY
8008H	EXHIBITOR LOBBY
8008I	EXHIBITOR LOBBY
8008J	EXHIBITOR LOBBY
8008K	EXHIBITOR LOBBY
8008L	EXHIBITOR LOBBY
8008M	EXHIBITOR LOBBY
8008N	EXHIBITOR LOBBY
8008O	EXHIBITOR LOBBY
8008P	EXHIBITOR LOBBY
8008Q	EXHIBITOR LOBBY
8008R	EXHIBITOR LOBBY
8008S	EXHIBITOR LOBBY
8008T	EXHIBITOR LOBBY
8008U	EXHIBITOR LOBBY
8008V	EXHIBITOR LOBBY
8008W	EXHIBITOR LOBBY
8008X	EXHIBITOR LOBBY
8008Y	EXHIBITOR LOBBY
8008Z	EXHIBITOR LOBBY
8009	EXHIBITOR LOBBY
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8013	EXHIBITOR LOBBY
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8062	EXHIBITOR LOBBY
8063	EXHIBITOR LOBBY



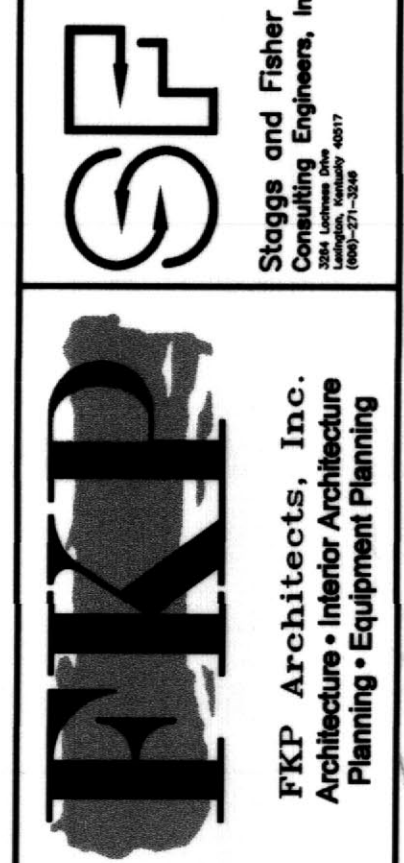
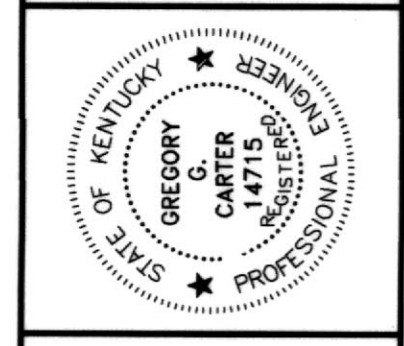
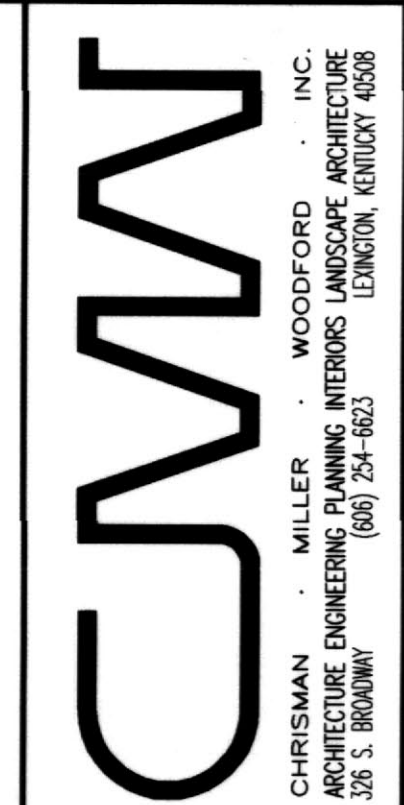
**POWER PLAN - NEW WORK - BASEMENT**  
SHEET SCALE: 1/4" = 1'-0"

**NOT FOR CONSTRUCTION**

**POWER - NEW WORK - BASEMENT PLAN**  
PRIMARY CARE / OUTPATIENT  
DIAGNOSTIC TREATMENT CENTER  
UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY

SHT.	PROJECT TITLE
DATE:	DECEMBER, 1999
DRAWN BY:	WPK
CHECKED BY:	GGC
REVISED:	
DATE:	10/16/01
ADDENDUM #	2
REVISION #	2
SHEET NUMBER	9.1.2
PROJECT NUMBER	99024.01
SF PROJECT NUMBER	99600

RECORD DRAWINGS DATE 11/10/03  
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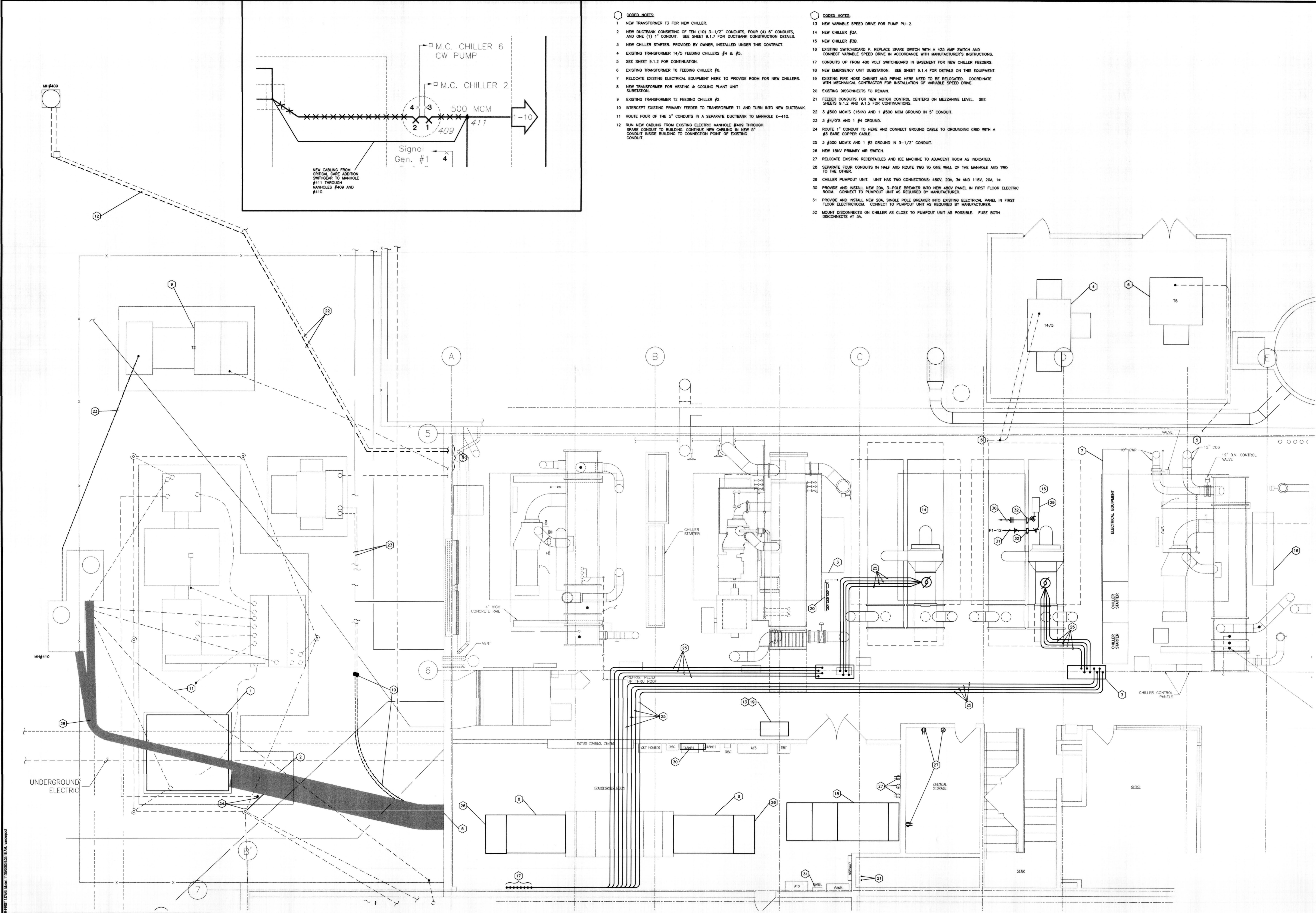
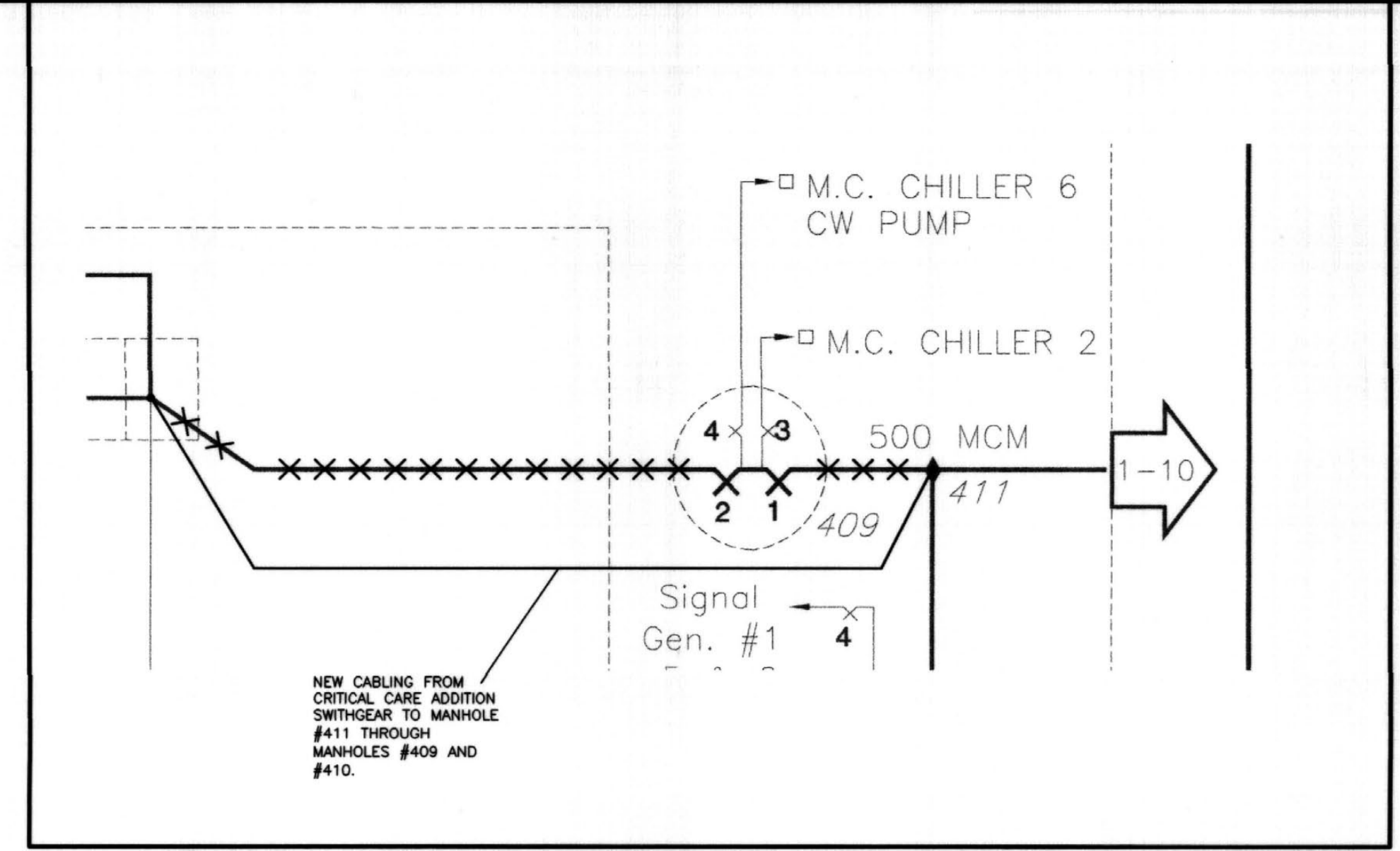
**Robert A. M. Stiem**  
Architects

FAILURE TO ADHERE TO THESE DOCUMENTS OR THE DESIGN PROFESSIONAL'S WORK SHALL BE AT THE USER'S RISK. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE DESIGN PROFESSIONAL'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED.



- CODED NOTES:**
- 1 NEW TRANSFORMER T3 FOR NEW CHILLER.
  - 2 NEW DUCTBANK CONSISTING OF TEN (10) 3-1/2" CONDUITS, FOUR (4) 5" CONDUITS, AND ONE (1) 1" CONDUIT. SEE SHEET 9.1.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 3 NEW CHILLER STARTER, PROVIDED BY OWNER, INSTALLED UNDER THIS CONTRACT.
  - 4 EXISTING TRANSFORMER T4/S FEEDING CHILLERS #4 & #5.
  - 5 SEE SHEET 9.1.2 FOR CONTINUATION.
  - 6 EXISTING TRANSFORMER T6 FEEDING CHILLER #6.
  - 7 RELOCATE EXISTING ELECTRICAL EQUIPMENT HERE TO PROVIDE ROOM FOR NEW CHILLERS.
  - 8 NEW TRANSFORMER FOR HEATING & COOLING PLANT UNIT SUBSTATION.
  - 9 EXISTING TRANSFORMER T2 FEEDING CHILLER #2.
  - 10 INTERCEPT EXISTING PRIMARY FEEDER TO TRANSFORMER T1 AND TURN INTO NEW DUCTBANK.
  - 11 ROUTE FOUR OF THE 5" CONDUITS IN A SEPARATE DUCTBANK TO MANHOLE E-410.
  - 12 RUN NEW CABLING FROM EXISTING ELECTRIC MANHOLE #409 THROUGH SPARE CONDUIT TO BUILDING. CONTINUE NEW CABLING IN NEW 5" CONDUIT INSIDE BUILDING TO CONNECTION POINT OF EXISTING CONDUIT.
  - 13 NEW VARIABLE SPEED DRIVE FOR PUMP PU-2.
  - 14 NEW CHILLER #3A.
  - 15 NEW CHILLER #3B.
  - 16 EXISTING SWITCHBOARD P. REPLACE SPARE SWITCH WITH A 425 AMP SWITCH AND CONNECT VARIABLE SPEED DRIVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - 17 CONDUITS UP FROM 480 VOLT SWITCHBOARD IN BASEMENT FOR NEW CHILLER FEEDERS.
  - 18 NEW EMERGENCY UNIT SUBSTATION. SEE SHEET 9.1.4 FOR DETAILS ON THIS EQUIPMENT.
  - 19 EXISTING FIRE HOSE CABINET AND PIPING HERE NEED TO BE RELOCATED. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF VARIABLE SPEED DRIVE.
  - 20 EXISTING DISCONNECTS TO REMAIN.
  - 21 FEEDER CONDUITS FOR NEW MOTOR CONTROL CENTERS ON MEZZANINE LEVEL. SEE SHEETS 9.1.2 AND 9.1.5 FOR CONTINUATIONS.
  - 22 3 #500 MCM'S (15KV) AND 1 #500 MCM GROUND IN 5" CONDUIT.
  - 23 3 #4/0'S AND 1 #4 GROUND.
  - 24 ROUTE 1" CONDUIT TO HERE AND CONNECT GROUND CABLE TO GROUNDING GRID WITH A #3 BARE COPPER CABLE.
  - 25 3 #500 MCM'S AND 1 #2 GROUND IN 3-1/2" CONDUIT.
  - 26 NEW 15KV PRIMARY AIR SWITCH.
  - 27 RELOCATE EXISTING RECEPTACLES AND ICE MACHINE TO ADJACENT ROOM AS INDICATED.
  - 28 SEPARATE FOUR CONDUITS IN HALF AND ROUTE TWO TO ONE WALL OF THE MANHOLE AND TWO TO THE OTHER.
  - 29 CHILLER PUMP/OUT UNIT. UNIT HAS TWO CONNECTIONS: 480V, 20A, 3P AND 115V, 20A, 1P.
  - 30 PROVIDE AND INSTALL NEW 20A, 3-POLE BREAKER INTO NEW 480V PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
  - 31 PROVIDE AND INSTALL NEW 20A, SINGLE POLE BREAKER INTO EXISTING ELECTRICAL PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
  - 32 MOUNT DISCONNECTS ON CHILLER AS CLOSE TO PUMP/OUT UNIT AS POSSIBLE. FUSE BOTH DISCONNECTS AT 5A.

- CODED NOTES:**
- 13 NEW VARIABLE SPEED DRIVE FOR PUMP PU-2.
  - 14 NEW CHILLER #3A.
  - 15 NEW CHILLER #3B.
  - 16 EXISTING SWITCHBOARD P. REPLACE SPARE SWITCH WITH A 425 AMP SWITCH AND CONNECT VARIABLE SPEED DRIVE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - 17 CONDUITS UP FROM 480 VOLT SWITCHBOARD IN BASEMENT FOR NEW CHILLER FEEDERS.
  - 18 NEW EMERGENCY UNIT SUBSTATION. SEE SHEET 9.1.4 FOR DETAILS ON THIS EQUIPMENT.
  - 19 EXISTING FIRE HOSE CABINET AND PIPING HERE NEED TO BE RELOCATED. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF VARIABLE SPEED DRIVE.
  - 20 EXISTING DISCONNECTS TO REMAIN.
  - 21 FEEDER CONDUITS FOR NEW MOTOR CONTROL CENTERS ON MEZZANINE LEVEL. SEE SHEETS 9.1.2 AND 9.1.5 FOR CONTINUATIONS.
  - 22 3 #500 MCM'S (15KV) AND 1 #500 MCM GROUND IN 5" CONDUIT.
  - 23 3 #4/0'S AND 1 #4 GROUND.
  - 24 ROUTE 1" CONDUIT TO HERE AND CONNECT GROUND CABLE TO GROUNDING GRID WITH A #3 BARE COPPER CABLE.
  - 25 3 #500 MCM'S AND 1 #2 GROUND IN 3-1/2" CONDUIT.
  - 26 NEW 15KV PRIMARY AIR SWITCH.
  - 27 RELOCATE EXISTING RECEPTACLES AND ICE MACHINE TO ADJACENT ROOM AS INDICATED.
  - 28 SEPARATE FOUR CONDUITS IN HALF AND ROUTE TWO TO ONE WALL OF THE MANHOLE AND TWO TO THE OTHER.
  - 29 CHILLER PUMP/OUT UNIT. UNIT HAS TWO CONNECTIONS: 480V, 20A, 3P AND 115V, 20A, 1P.
  - 30 PROVIDE AND INSTALL NEW 20A, 3-POLE BREAKER INTO NEW 480V PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
  - 31 PROVIDE AND INSTALL NEW 20A, SINGLE POLE BREAKER INTO EXISTING ELECTRICAL PANEL IN FIRST FLOOR ELECTRIC ROOM. CONNECT TO PUMP/OUT UNIT AS REQUIRED BY MANUFACTURER.
  - 32 MOUNT DISCONNECTS ON CHILLER AS CLOSE TO PUMP/OUT UNIT AS POSSIBLE. FUSE BOTH DISCONNECTS AT 5A.

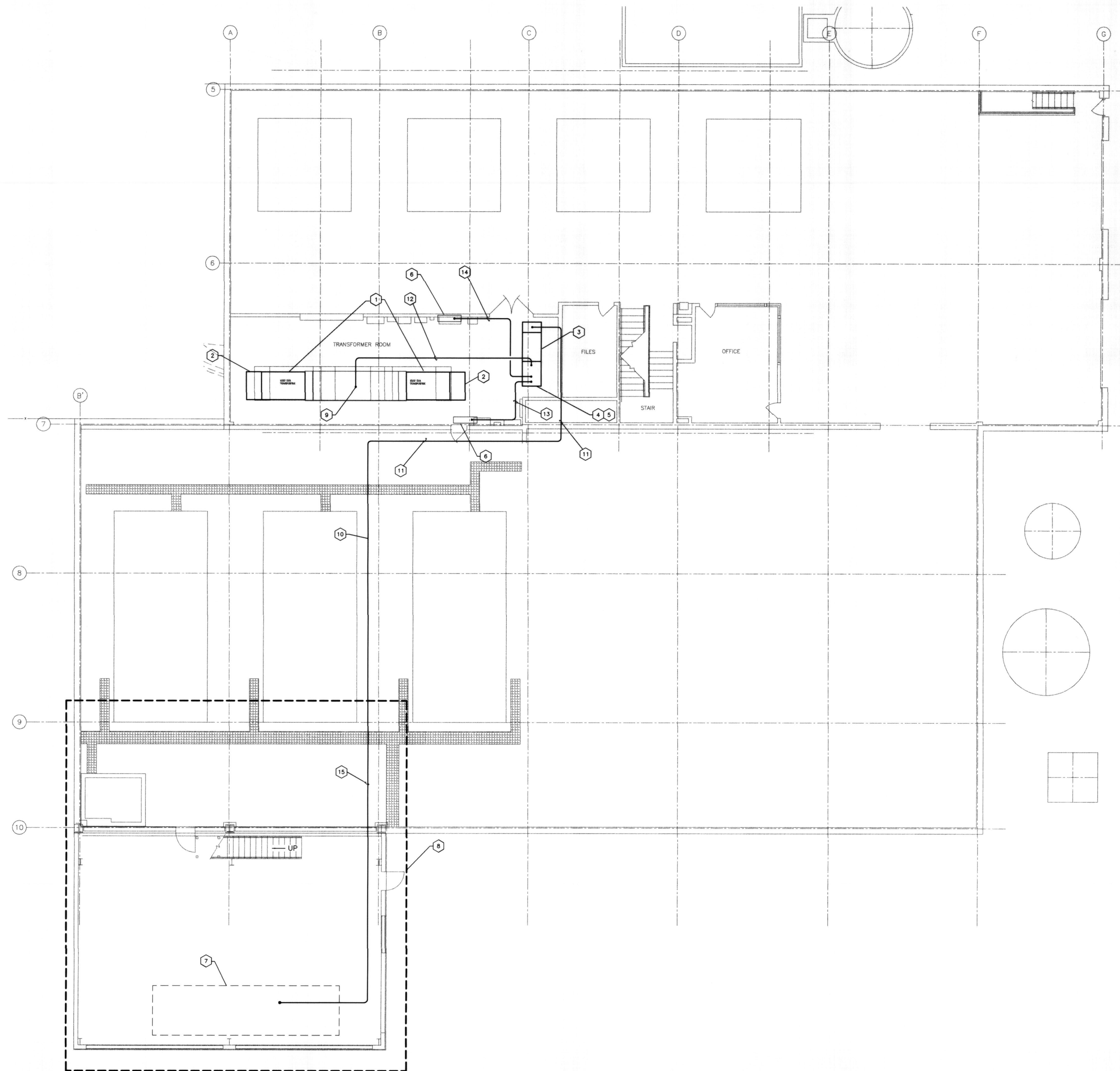


**NOTE:**  
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**POWER PLAN - FIRST FLOOR - AREA 1**  
SHEET SCALE: 1/4" = 1'-0"

**COOLING PLANT #3**



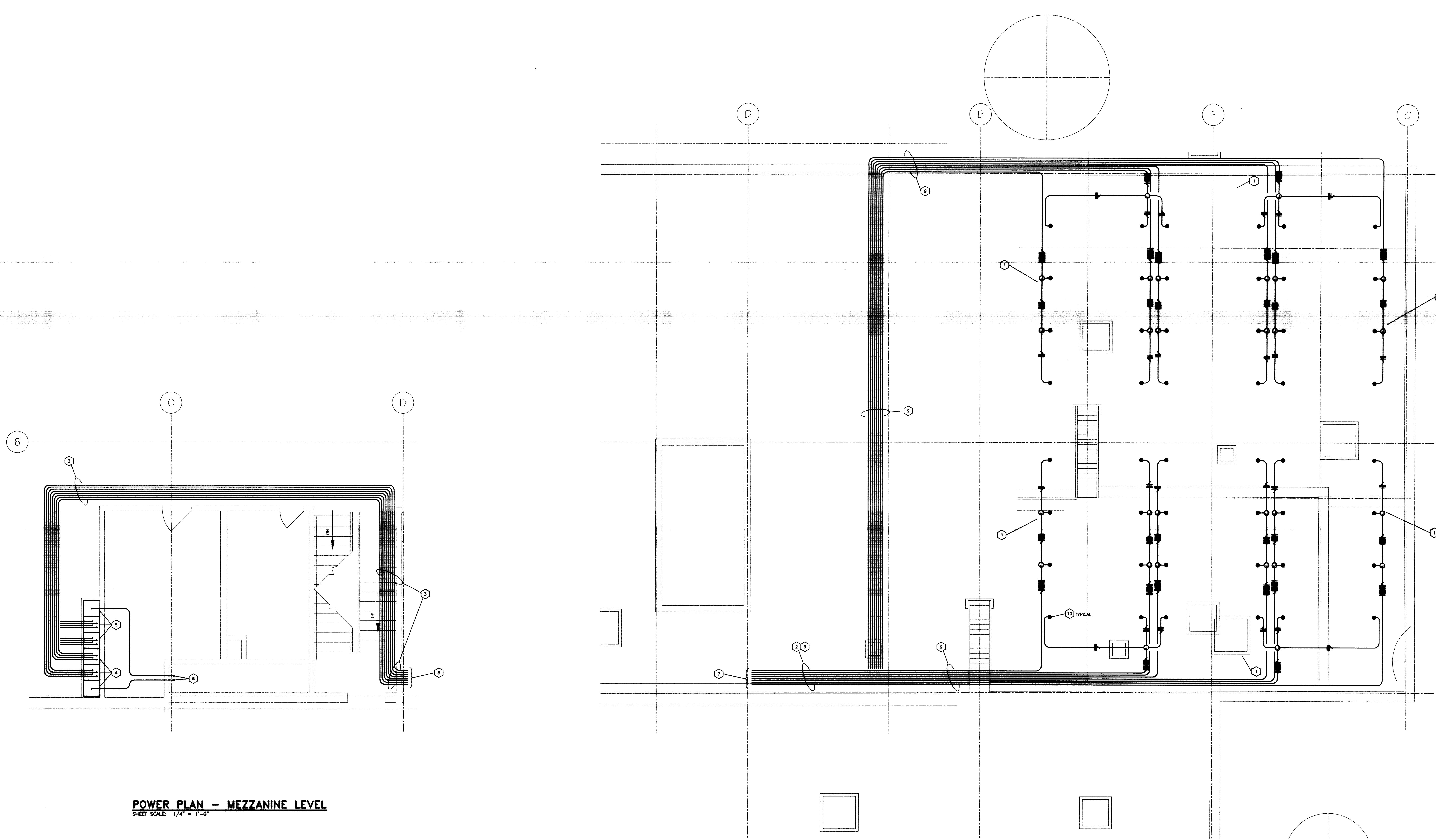
- CODED NOTES:**
- 1 NEW 1000 KVA, 12470 VOLT DELTA/480-277 VOLT WYE, TRANSFORMERS FOR HEATING & COOLING PLANT UNIT SUBSTATION.
  - 2 NEW 15KV SWITCH.
  - 3 NEW 500 KVA, 4160 VOLT DELTA/480-277 VOLT WYE, PAD-MOUNTED TRANSFORMER.
  - 4 1000 AMP TRANSFORMER SECONDARY BREAKER.
  - 5 EMERGENCY DISTRIBUTION PANELBOARD.
  - 6 EXISTING TRANSFER SWITCH.
  - 7 EMERGENCY GENERATOR PARALLELING SWITCHGEAR ON SECOND FLOOR. PROVIDE NEW FEEDER BREAKER FOR NEW SUBSTATION.
  - 8 EMERGENCY GENERATOR SHED BEING INSTALLED UNDER THE EMERGENCY DISTRIBUTION UPGRADE PROJECT.
  - 9 CONNECT FEEDER FROM EMERGENCY DISTRIBUTION PANELBOARD DIRECTLY TO BUSS OF UNIT SUBSTATION. SEE RISER DIAGRAM FOR ADDITIONAL DETAILS.
  - 10 PRIMARY FEED TO NEW EMERGENCY POWER UNIT SUBSTATION FROM GENERATOR PARALLELING SWITCHGEAR ON SECOND FLOOR OF GENERATOR SHED ADDITION.
  - 11 3 #6 (5KV) AND 1 #6 GROUND IN 4" CONDUIT.
  - 12 4 #500 MCM'S AND 1 #1/0 GROUND IN EACH OF (2) 3-1/2" CONDUITS.
  - 13 3 #2/0'S AND 1 #6 GROUND IN EACH OF (2) 2" CONDUITS.
  - 14 3 #3/0'S AND 1 #4 GROUND IN 2" CONDUIT.
  - 15 3 #6 (5KV) AND 1 #6 GROUND IN EXISTING 4" CONDUIT TO GENERATOR PARALLELING SWITCHGEAR.

**POWER PLAN - FIRST FLOOR AREA 2**  
SHEET SCALE: 1/8" = 1'-0"

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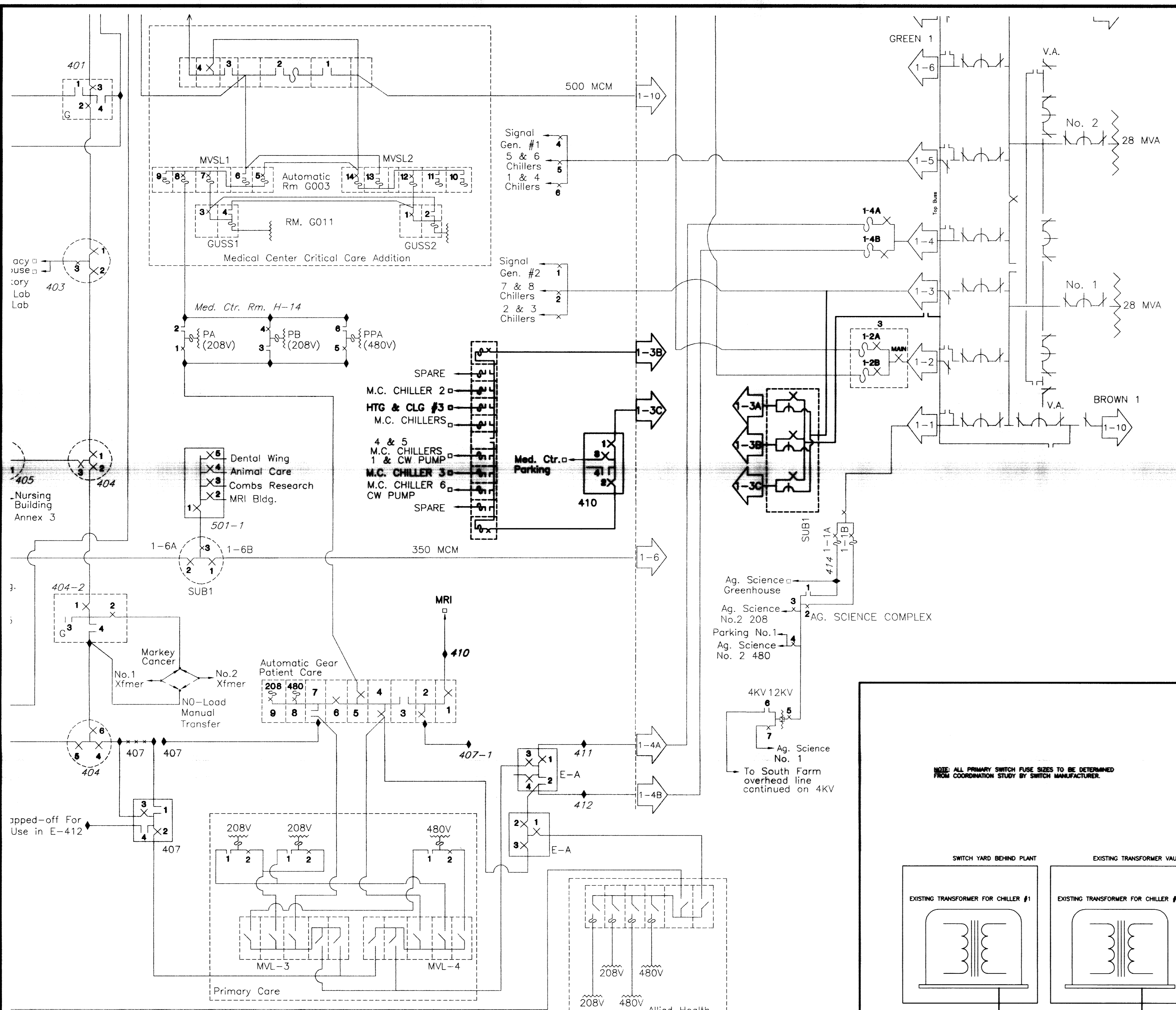
**POWER PLAN - MEZZANINE LEVEL**  
SHEET SCALE: 1/4" = 1'-0"

**POWER PLAN - ROOF**  
SHEET SCALE: 1/4" = 1'-0"

- CODED NOTES:**
- 1 NEW COOLING TOWER FAN UNITS CONSISTING OF EIGHT FANS. EACH FAN IS 7.5 HP, 480 V, 3Ø AND IS FED BY 3 #12'S AND 1 #12 GND IN 2" CONDUIT.
  - 2 TWO ROWS OF EIGHT 2" CONDUITS RUN ONE ON TOP OF THE OTHER. EACH CONDUIT CONTAINS THREE SEPARATE FEEDERS.
  - 3 CONDUITS TO BE ROUTED ALONG EAST WALL OF STAIRWELL AND OUT WALL NEAR TOP OF STAIRWELL.
  - 4 MOTOR CONTROL CENTER 9A FED FROM MCC#8 IN BASEMENT. UNIT HAS ONE INCOMING SECTION AND TWO LOAD SECTIONS WITH 12 MODULAR MOTOR STARTERS IN EACH. MOTOR STARTERS TO HAVE LED INDICATING LIGHTS.
  - 5 MOTOR CONTROL CENTER 9B FED FROM MCC IN BASEMENT. UNIT HAS ONE INCOMING SECTION AND TWO LOAD SECTIONS WITH 12 MODULAR MOTOR STARTERS IN EACH. MOTOR STARTERS TO HAVE LED INDICATING LIGHTS.
  - 6 CONDUIT ROUTED THROUGH EXISTING PIPE CHASE. SEE SHEET 0.1.3 FOR CONTINUATION.
  - 7 SEE MEZZANINE LEVEL PLAN AT LEFT FOR CONTINUATION.
  - 8 SEE ROOF PLAN AT RIGHT FOR CONTINUATION.
  - 9 ROUTE CONDUIT ALONG UNDERSIDE OF EXISTING COOLING TOWER STRUCTURE.
  - 10 CONNECT TO FAN DISCONNECT PER MANUFACTURER'S INSTRUCTIONS.

**NOTE:**  
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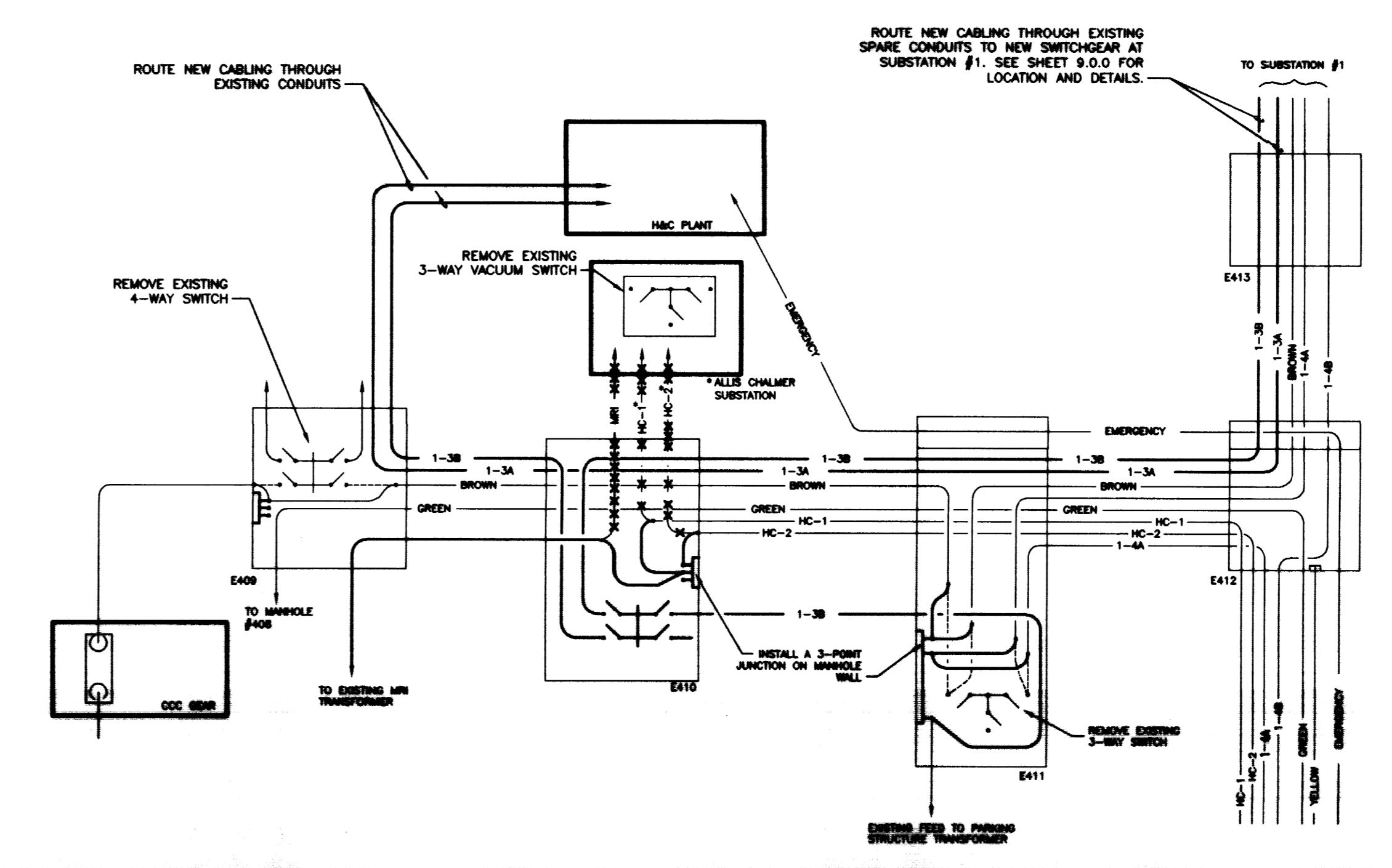
RECORD DRAWINGS DATE 11/10/03  
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STAGGS & FISHER CONSULTING ENGINEERS, INC.



**MODIFIED 12KV ONE LINE DIAGRAM**  
NO SCALE

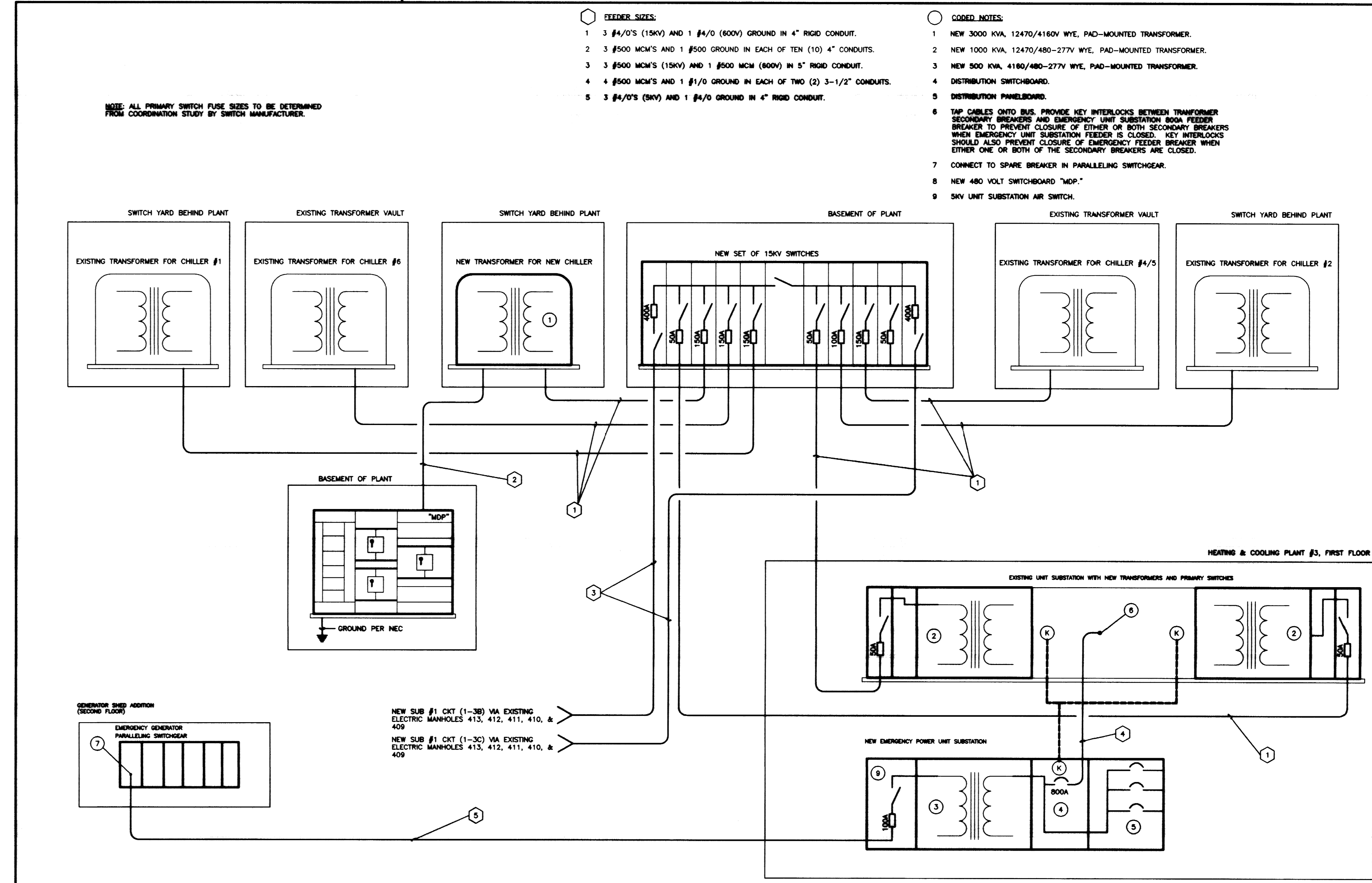
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**12KV PRIMARY/MANHOLE SCHEMATIC DIAGRAM**  
NO SCALE

NOTE: REMOVE 10 3/4" RIGID CONDUIT AND 1/2" RIGID CONDUIT FROM ALL LINES THROUGH EXISTING TRANSFORMER VAULTS AND SWITCHYARDS.  
LEGEND:  
- M - 3/4" RIGID CONDUIT TO BE REMOVED.  
- N - 3/4" RIGID CONDUIT TO BE REMOVED.  
- R - 3/4" RIGID CONDUIT TO BE REMOVED.  
- S - 3/4" RIGID CONDUIT TO BE REMOVED.  
- T - 3/4" RIGID CONDUIT TO BE REMOVED.  
- U - 3/4" RIGID CONDUIT TO BE REMOVED.  
- V - 3/4" RIGID CONDUIT TO BE REMOVED.  
- W - 3/4" RIGID CONDUIT TO BE REMOVED.  
- X - 3/4" RIGID CONDUIT TO BE REMOVED.  
- Y - 3/4" RIGID CONDUIT TO BE REMOVED.  
- Z - 3/4" RIGID CONDUIT TO BE REMOVED.  
NOTE:  
ALL NEW NORMAL POWER PRIMARY CIRCUITS SHALL CONSIST OF THREE (3) PHASES (15KV) AND ONE (1) GROUND (600V) UNLESS OTHERWISE NOTED.



**ELECTRICAL RISER DIAGRAM**  
NO SCALE

NOTE: ALL PRIMARY SWITCH FUSE SIZES TO BE DETERMINED FROM COORDINATION STUDY BY SWITCH MANUFACTURER.

- FEEDER SIZES:**
- 3 #4/0'S (15KV) AND 1 #4/0 (600V) GROUND IN 4" RIGID CONDUIT.
  - 3 #500 MCM'S AND 1 #500 GROUND IN EACH OF TEN (10) 4" CONDUITS.
  - 3 #500 MCM'S (15KV) AND 1 #500 MCM (600V) IN 5" RIGID CONDUIT.
  - 3 #500 MCM'S AND 1 #1/0 GROUND IN EACH OF TWO (2) 3-1/2" CONDUITS.
  - 3 #4/0'S (8KV) AND 1 #4/0 GROUND IN 4" RIGID CONDUIT.

- CODED NOTES:**
- NEW 3000 KVA, 12470/4160V WYE, PAD-MOUNTED TRANSFORMER.
  - NEW 1000 KVA, 12470/480-277V WYE, PAD-MOUNTED TRANSFORMER.
  - NEW 500 KVA, 4160/480-277V WYE, PAD-MOUNTED TRANSFORMER.
  - DISTRIBUTION SWITCHBOARD.
  - DISTRIBUTION PANELBOARD.
  - TAP CABLES ONTO BUS, PROVIDE KEY INTERLOCKS BETWEEN TRANSFORMER SECONDARY BREAKERS AND EMERGENCY UNIT SUBSTATION BREAKER TO PREVENT CLOSURE OF EITHER OR BOTH SECONDARY BREAKERS WHEN EMERGENCY UNIT SUBSTATION FEEDER IS CLOSED. KEY INTERLOCKS SHOULD ALSO PREVENT CLOSURE OF EMERGENCY FEEDER BREAKER WHEN EITHER ONE OR BOTH OF THE SECONDARY BREAKERS ARE CLOSED.
  - CONNECT TO SPARE BREAKER IN PARALLELING SWITCHGEAR.
  - NEW 480 VOLT SWITCHBOARD "MOP".
  - 8KV UNIT SUBSTATION AIR SWITCH.

**CJM**  
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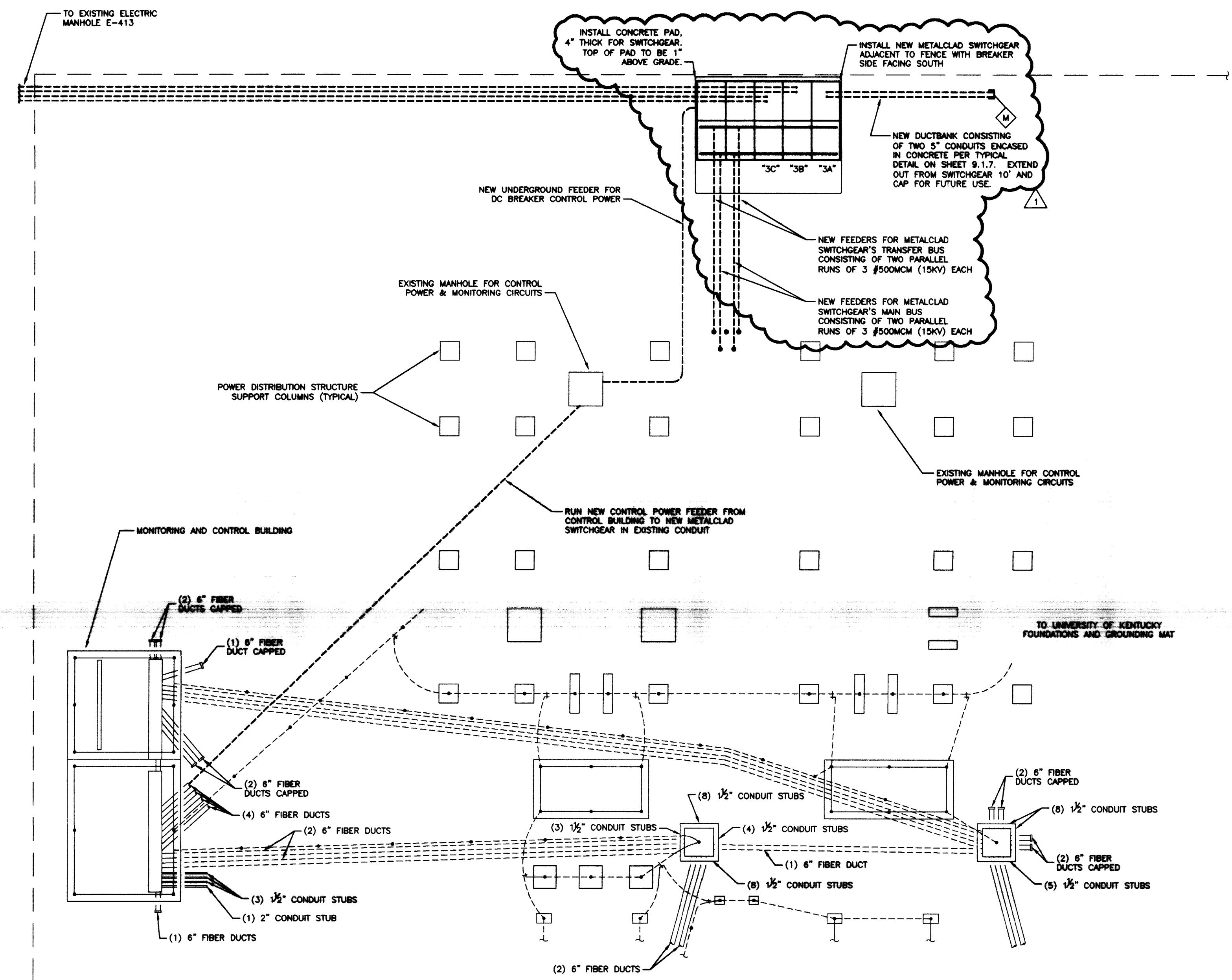
**SF**  
Staggs and Fisher, Inc.  
Consulting Engineers, Inc.  
Lexington, Kentucky 40517

REGISTERED PROFESSIONAL ENGINEER  
STATE OF KENTUCKY  
LICENSE NO. 10000

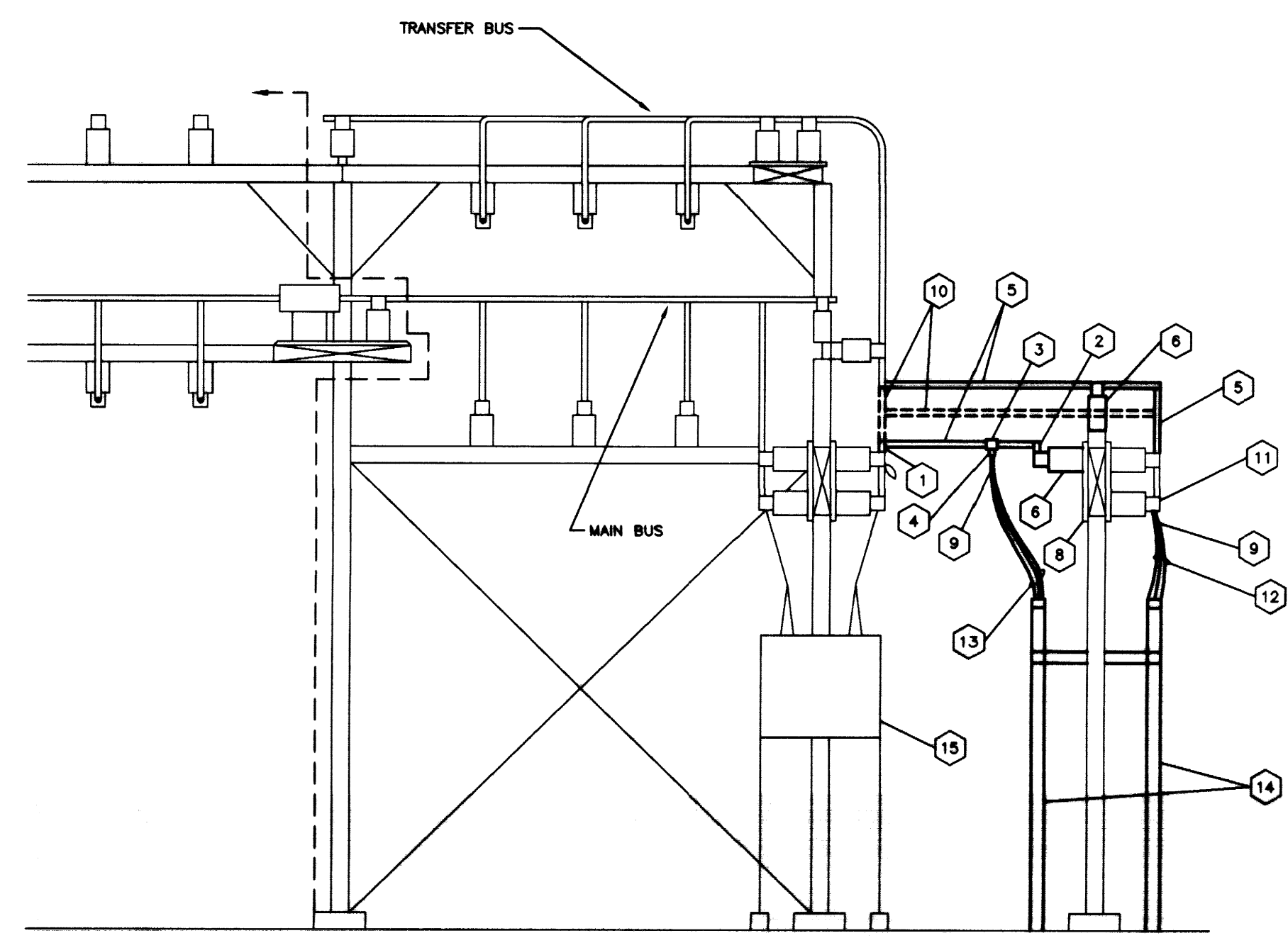
**ELECTRICAL PLAN - RISERS**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE: DECEMBER, 2000  
DRAWN BY: WPW  
CHECKED BY: GGC  
REVISED:  
DATE: 1/18/01  
3/21/02 FEEDER REVISION  
4/22/02 FUSE REVISION  
5/2/02 FEEDER REVISION  
SHEET NUMBER  
**9.1.6**  
PROJECT NUMBER  
99024.02  
Cab #  
1174 C-2  
23597



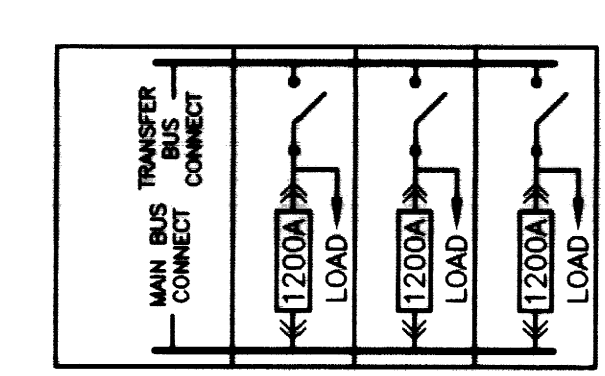


**PARTIAL FIBER DUCT, CONDUIT, AND GROUNDING PLAN**  
SCALE: 1/8"=1'-0"

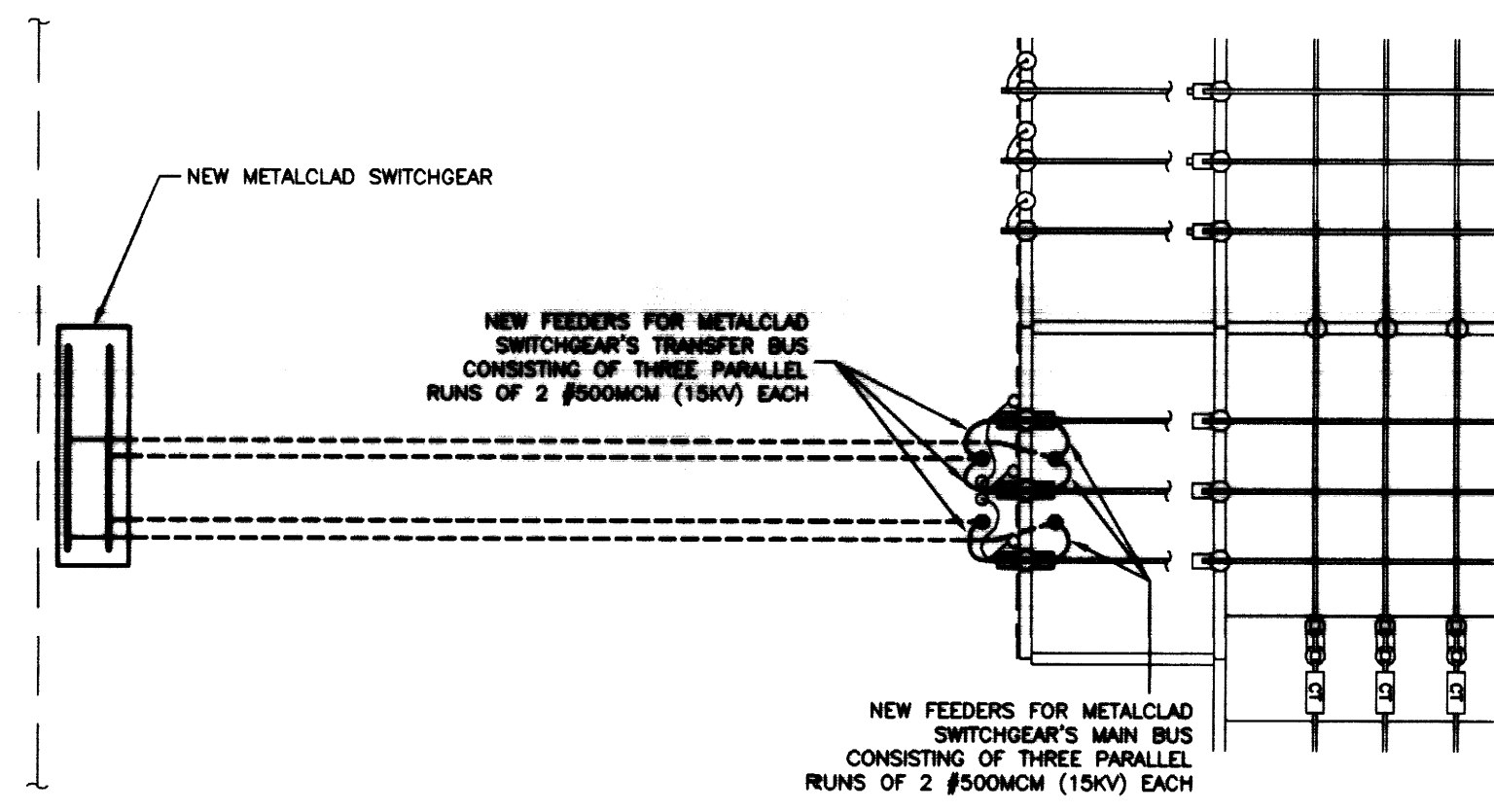


**SUBSTATION #1 - NEW SWITCHGEAR INSTALLATION DETAIL - SECTION VIEW**  
NO SCALE

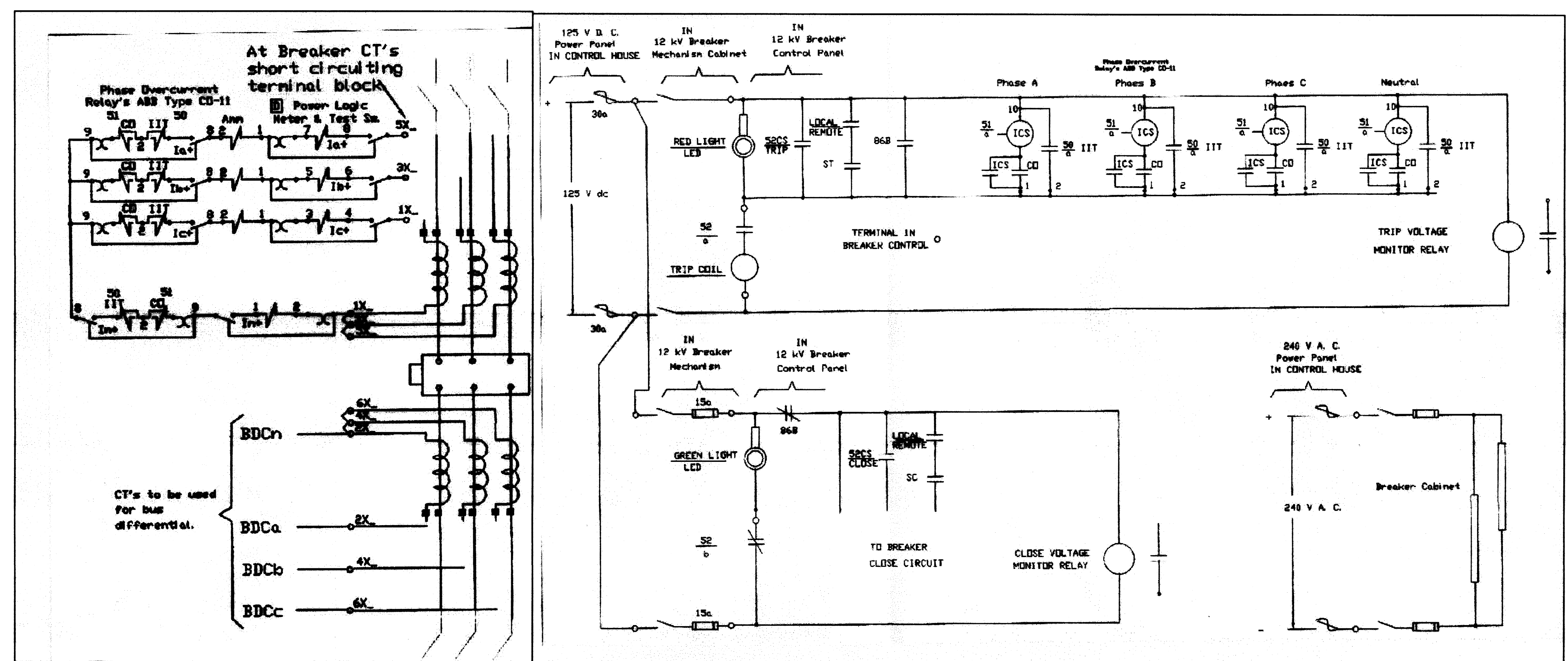
- NOTES:**
- BRONZE TERMINAL 1-1/4" S.P.S. TO A 4 HOLE PAD. CATALOG # FNT90-49-4A.
  - BRONZE BUS SUPPORT TO 1-1/4" S.P.S. CATALOG # SVT1-49-3.
  - BRONZE TEE CONNECTOR 1-1/4" RUN TO 4 HOLE PAD. CATALOG # TT-49-4A.
  - BRONZE TERMINAL 4 HOLE PAD TO 500 MCM COPPER CABLE. CATALOG # FNCT-42-4A.
  - 1-1/4" S.P.S. COPPER PIPE BUS.
  - 3" B.C. 15KV CLASS STATION POST INSULATOR. CATALOG # T.R.205.
  - 6" INSULATOR STOOL FOR 3" B.C.
  - 3" B.C. GALVANIZED STEEL INSULATOR SUPPORTS.
  - RAYCHEM TERMINATORS FOR 500 MCM CABLE.
  - REMOVE SECTION OF EXISTING BUS TO FACILITATE ROUTING BOTH BUSES TO FRONT DISTRIBUTION GARDER.
  - TERMINATE NEW FEEDER CONDUCTORS ONTO EXISTING FEEDER TERMINALS.
  - NEW FEEDERS FOR METALCLAD SWITCHGEAR'S TRANSFER BUS CONSISTING OF THREE PARALLEL RUNS OF 2 #500MCM (15KV) EACH.
  - NEW FEEDERS FOR METALCLAD SWITCHGEAR'S MAIN BUS CONSISTING OF THREE PARALLEL RUNS OF 2 #500MCM (15KV) EACH.
  - INSTALL 2 NEW RUNS OF 5" CONDUIT.
  - EXISTING BREAKER FOR CIRCUIT 1-3. RESET OVERCURRENT TRIP SETTINGS TO 800 AMPS.



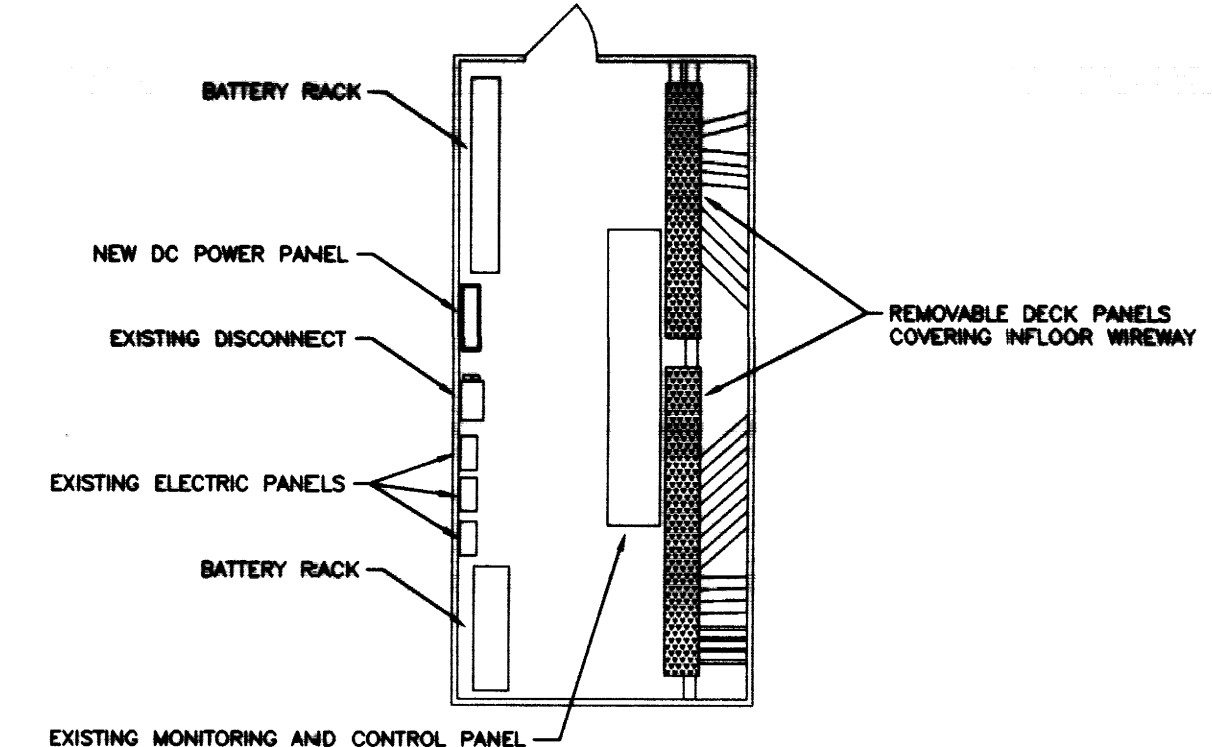
**METALCLAD SWITCHGEAR BLOCK DIAGRAM**  
NO SCALE



**SUBSTATION #1 - NEW SWITCHGEAR INSTALLATION DETAIL - PLAN VIEW**  
NO SCALE

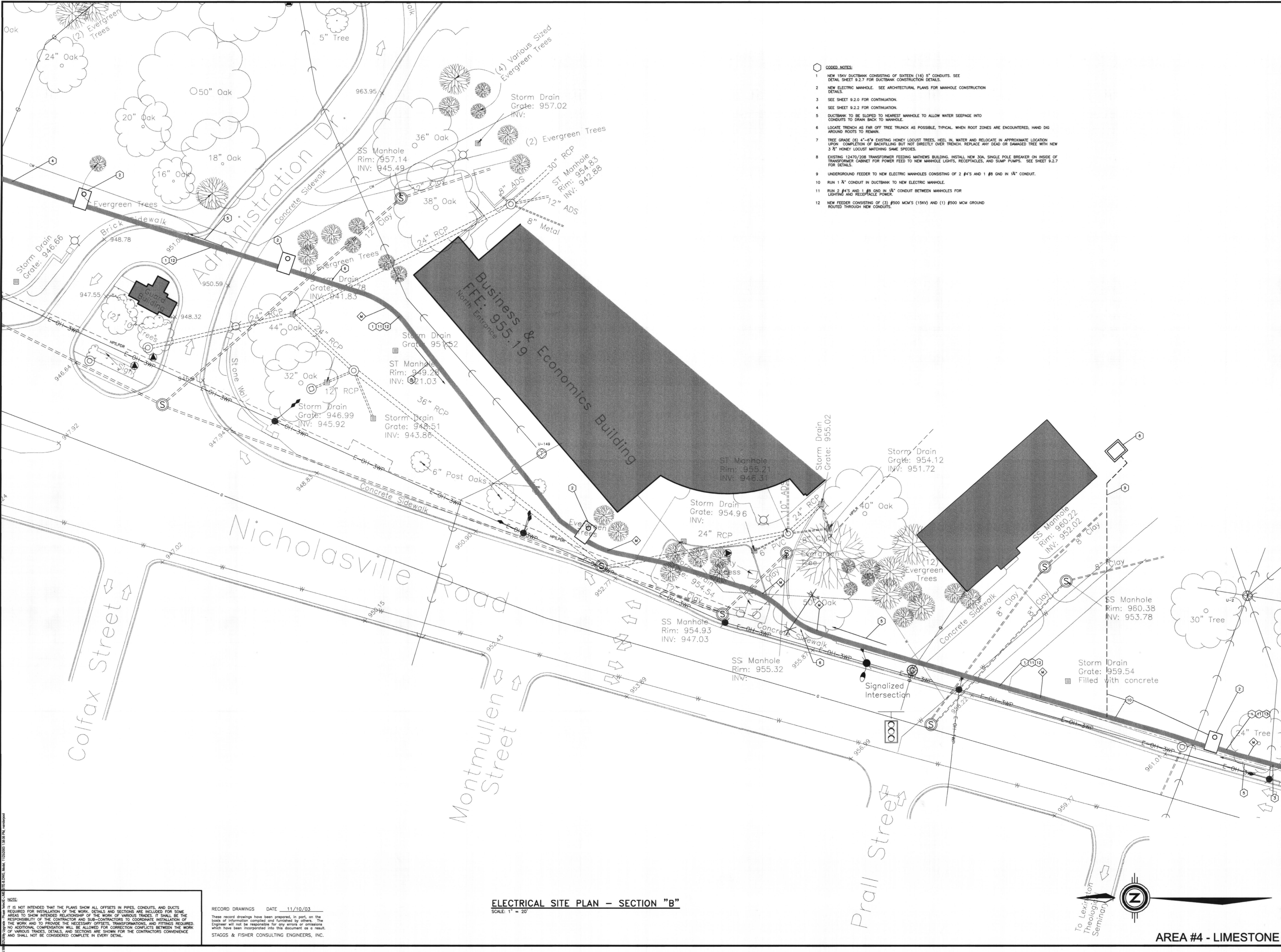


**METALCLAD SWITCHGEAR CONTROL SCHEMATICS**  
NO SCALE



**DC POWER PANEL INSTALLATION DETAIL - CONTROL HOUSE**  
NO SCALE

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- CODED NOTES:**
- 1 NEW 18KV DUCTBANK CONSISTING OF SIXTEEN (16) 6" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  - 3 SEE SHEET 9.2.0 FOR CONTINUATION.
  - 4 SEE SHEET 9.2.2 FOR CONTINUATION.
  - 5 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 6 LOCATE TRENCH AS FAR OFF TREE TRUNK AS POSSIBLE. TYPICAL WHEN ROOT ZONES ARE ENCOUNTERED, HAND DIG AROUND ROOTS TO REMOVE.
  - 7 TREE GRADE (6) 4"-6" EXISTING HONEY LOCUST TREES. HEEL IN, WATER AND RELOCATE IN APPROXIMATE LOCATION UPON COMPLETION OF BACKFILLING BUT NOT DIRECTLY OVER TRENCH. REPLACE ANY DEAD OR DAMAGED TREE WITH NEW 3 1/2" HONEY LOCUST MATCHING SAME SPECIES.
  - 8 EXISTING 12470/208 TRANSFORMER FEEDING MATHEWS BUILDING. INSTALL NEW 30A SINGLE POLE BREAKER ON INSIDE OF TRANSFORMER CABINET FOR POWER FEED TO NEW MANHOLE LIGHTS, RECEPTACLES, AND SLUMP PUMPS. SEE SHEET 9.2.7 FOR DETAILS.
  - 9 UNDERGROUND FEEDER TO NEW ELECTRIC MANHOLES CONSISTING OF 2 #4'S AND 1 #6 GND IN 1 1/2" CONDUIT.
  - 10 RUN 1 1/2" CONDUIT IN DUCTBANK TO NEW ELECTRIC MANHOLE.
  - 11 RUN 2 #4'S AND 1 #6 GND IN 1 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
  - 12 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH NEW CONDUITS.

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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

**ELECTRICAL SITE PLAN - SECTION "B"**  
 SCALE: 1" = 20'



**AREA #4 - LIMESTONE**

**CJM**  
 CHRISTMAN MILLER WOODFORD, INC.  
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 Stagg and Fisher  
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 3284 Lechmere Drive  
 Lexington, Kentucky 40517

**PROFESSIONAL SEAL**  
 GREGORY CASTER  
 1975  
 PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF KENTUCKY

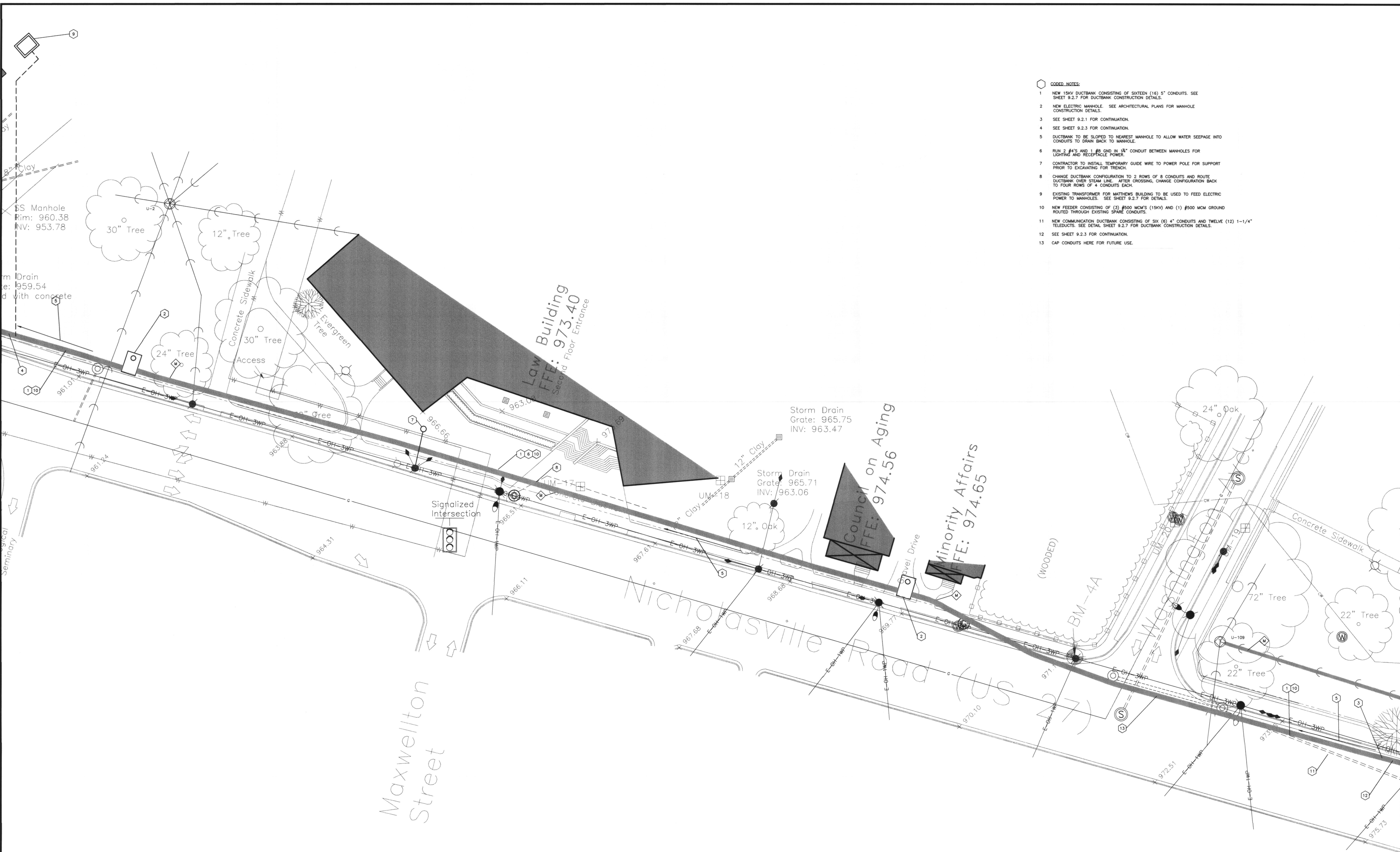
**ELECTRICAL SITE PLAN - SECTION "B"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: WPP  
 CHECKED BY: GGC  
 REVISED:  
 DATE

SHEET NUMBER  
**9.2.1**

PROJECT NUMBER  
 99024.02

SHEET DOCUMENT #  
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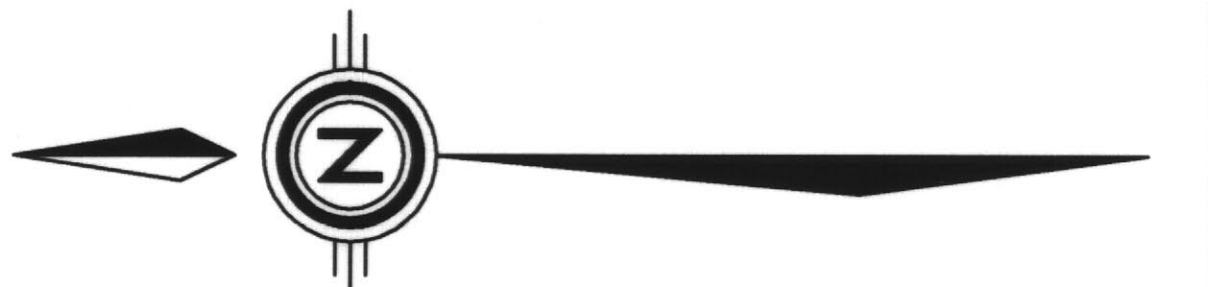


- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  - 3 SEE SHEET 9.2.1 FOR CONTINUATION.
  - 4 SEE SHEET 9.2.3 FOR CONTINUATION.
  - 5 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 6 RUN 2 #4'S AND 1 #6 GND IN 3/4" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
  - 7 CONTRACTOR TO INSTALL TEMPORARY GUIDE WIRE TO POWER POLE FOR SUPPORT PRIOR TO EXCAVATING FOR TRENCH.
  - 8 CHANGE DUCTBANK CONFIGURATION TO 2 ROWS OF 8 CONDUITS AND ROUTE DUCTBANK OVER STEAM LINE. AFTER CROSSING, CHANGE CONFIGURATION BACK TO FOUR ROWS OF 4 CONDUITS EACH.
  - 9 EXISTING TRANSFORMER FOR MATTHEWS BUILDING TO BE USED TO FEED ELECTRIC POWER TO MANHOLES. SEE SHEET 9.2.7 FOR DETAILS.
  - 10 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUITS.
  - 11 NEW COMMUNICATION DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND TWELVE (12) 1-1/4" TELECOMS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 12 SEE SHEET 9.2.3 FOR CONTINUATION.
  - 13 CAP CONDUITS HERE FOR FUTURE USE.

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**ELECTRICAL SITE PLAN - SECTION "C"**  
 SCALE: 1" = 20'



**CJM**  
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STATE OF KENTUCKY  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 14715  
 EXPIRES 12/31/04

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**ELECTRICAL SITE PLAN - SECTION "C"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: WFW  
 CHECKED BY: CCK  
 REVISED:  
 DATE

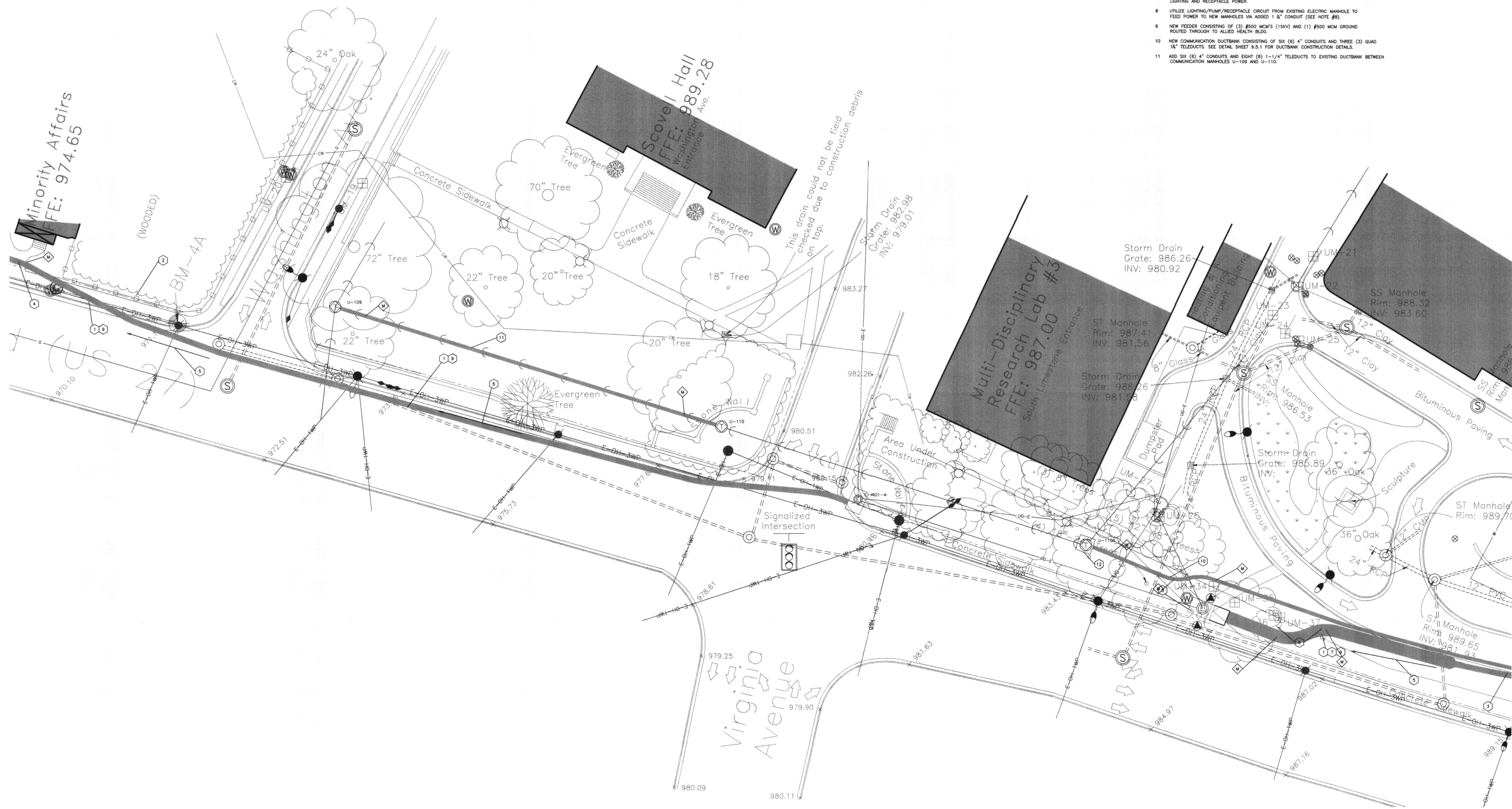
SHEET NUMBER  
**9.2.2**

PROJECT NUMBER  
 99024.02

Doc #  
 174  
 Document #  
 25512  
 C-2



- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 8" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  - 3 SEE SHEET 9.2.2 FOR CONTINUATION.
  - 4 SEE SHEET 9.2.4 FOR CONTINUATION.
  - 5 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 6 FORM COMMUNICATIONS DUCTBANK ADJACENT TO 15KV DUCTBANK WHEREVER POSSIBLE. SEE DETAIL ON SHEET 9.3.4.
  - 7 RUN 2 #2'S AND 1 #6 GND IN 1 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
  - 8 UTILIZE LIGHTING/PUMP/RECEPTACLE CIRCUIT FROM EXISTING ELECTRIC MANHOLE TO FEED POWER TO NEW MANHOLES VIA ADDED 1 1/2" CONDUIT (SEE NOTE #8).
  - 9 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH TO ALLIED HEALTH BLDG.
  - 10 NEW COMMUNICATION DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND THREE (3) QUAD 1 1/2" TELEDUCTS. SEE DETAIL SHEET 9.5.1 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 11 ADD SIX (6) 4" CONDUITS AND EIGHT (8) 1-1/4" TELEDUCTS TO EXISTING DUCTBANK BETWEEN COMMUNICATION MANHOLES U-109 AND U-110.



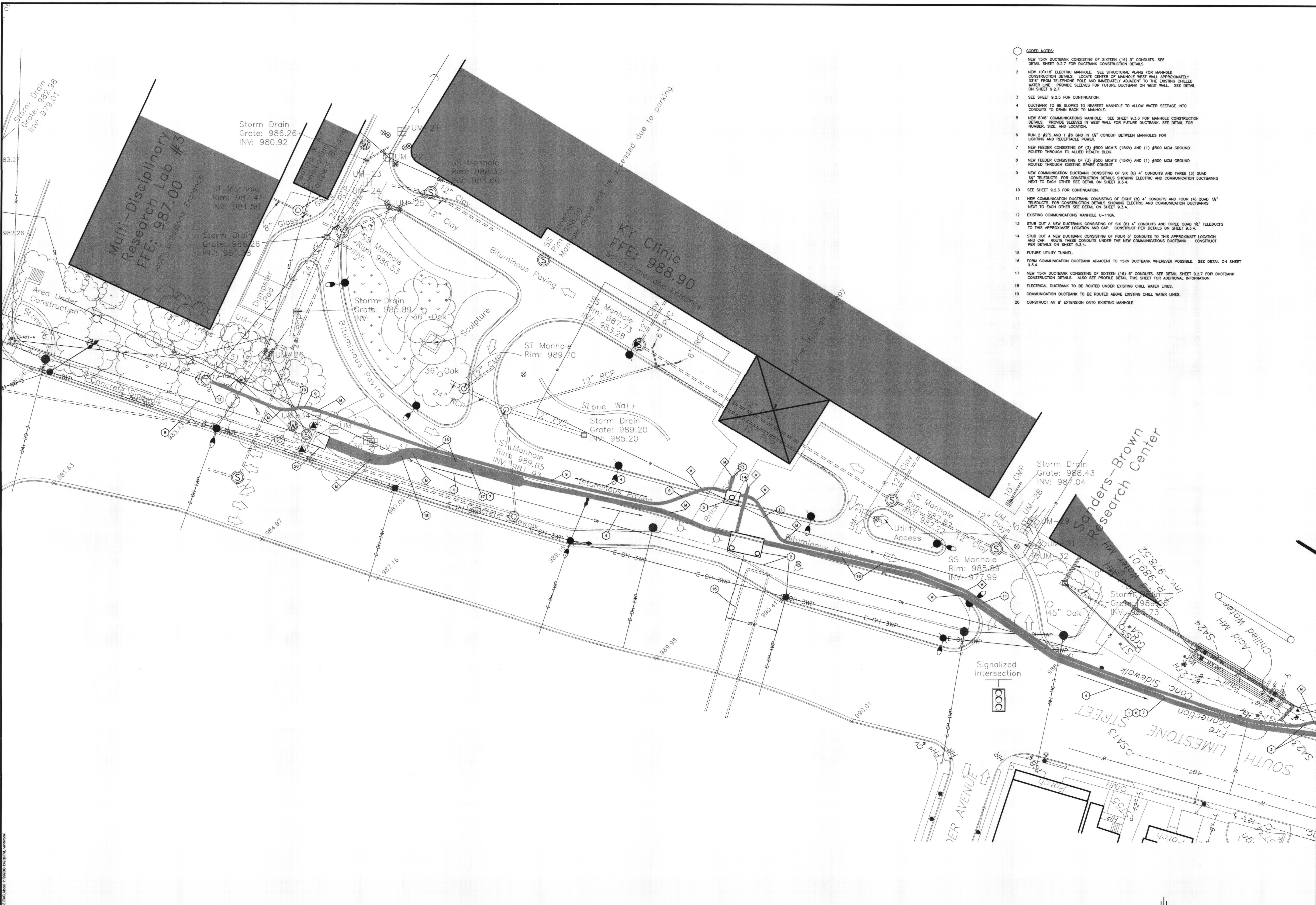
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STAGGS & FISHER CONSULTING ENGINEERS, INC.

**ELECTRICAL SITE PLAN - SECTION "D"**  
SCALE: 1" = 20'



AREA #4 - LIMESTONE

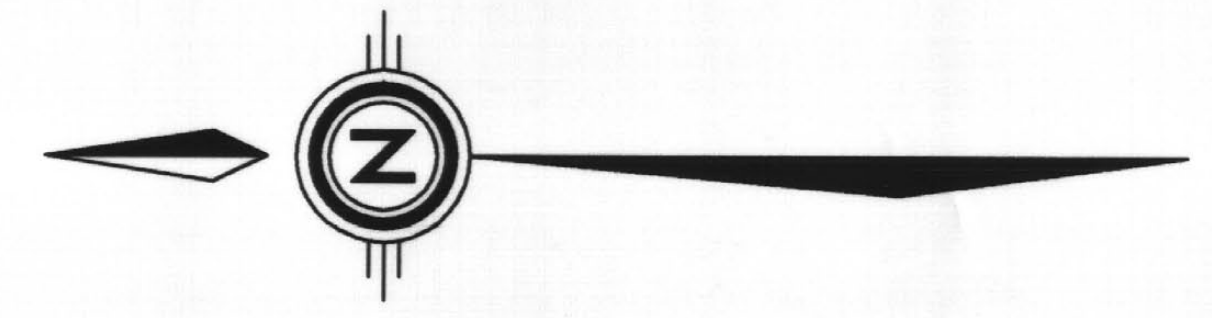


- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 NEW 10"x18" ELECTRIC MANHOLE. SEE STRUCTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS. LOCATE CENTER OF MANHOLE WEST WALL APPROXIMATELY 33" FROM TELEPHONE POLE AND IMMEDIATELY ADJACENT TO THE EXISTING CHILLED WATER LINE. PROVIDE SLEEVES FOR FUTURE DUCTBANK ON WEST WALL. SEE DETAIL ON SHEET 9.2.7.
  - 3 SEE SHEET 9.2.5 FOR CONTINUATION.
  - 4 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 5 NEW 8"x8" COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS. PROVIDE SLEEVES IN WEST WALL FOR FUTURE DUCTBANK. SEE DETAIL FOR NUMBER, SIZE, AND LOCATION.
  - 6 RUN 2 #2'S AND 1 #6 GND IN 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
  - 7 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH TO ADJACENT HEALTH BLDG.
  - 8 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUIT.
  - 9 NEW COMMUNICATION DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND THREE (3) QUAD 1/2" TELEDUCTS. FOR CONSTRUCTION DETAILS SHOWING ELECTRIC AND COMMUNICATION DUCTBANKS NEXT TO EACH OTHER SEE DETAIL ON SHEET 9.3.4.
  - 10 SEE SHEET 9.2.3 FOR CONTINUATION.
  - 11 NEW COMMUNICATION DUCTBANK CONSISTING OF EIGHT (8) 4" CONDUITS AND FOUR (4) QUAD 1/2" TELEDUCTS. FOR CONSTRUCTION DETAILS SHOWING ELECTRIC AND COMMUNICATION DUCTBANKS NEXT TO EACH OTHER SEE DETAIL ON SHEET 9.3.4.
  - 12 EXISTING COMMUNICATIONS MANHOLE U-110A.
  - 13 STUB OUT A NEW DUCTBANK CONSISTING OF SIX (6) 4" CONDUITS AND THREE QUAD 1/2" TELEDUCTS TO THIS APPROXIMATE LOCATION AND CAP. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
  - 14 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 5" CONDUITS TO THIS APPROXIMATE LOCATION AND CAP. ROUTE THESE CONDUITS UNDER THE NEW COMMUNICATIONS DUCTBANK. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
  - 15 FUTURE UTILITY TUNNEL.
  - 16 FORM COMMUNICATION DUCTBANK ADJACENT TO 15KV DUCTBANK WHEREVER POSSIBLE. SEE DETAIL ON SHEET 9.3.4.
  - 17 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 6" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS. ALSO SEE PROFILE DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.
  - 18 ELECTRICAL DUCTBANK TO BE ROUTED UNDER EXISTING CHILL WATER LINES.
  - 19 COMMUNICATION DUCTBANK TO BE ROUTED ABOVE EXISTING CHILL WATER LINES.
  - 20 CONSTRUCT AN 8" EXTENSION ONTO EXISTING MANHOLE.

**NOTE:**  
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RECORD DRAWINGS DATE 11/10/03  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

**ELECTRICAL SITE PLAN - SECTION "E"**  
 SCALE: 1" = 20'



**AREA #4 - LIMESTONE**

**CJM**  
 CHRISTMAN MILLER WOODFORD INC.  
 ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
 528 S. BROADWAY LEXINGTON, KENTUCKY 40517 (606) 254-6262

**S&F**  
 Staggs and Fisher  
 Consulting Engineers, Inc.  
 3294 Letcherway Drive Lexington, Kentucky 40517

REGISTERED PROFESSIONAL ENGINEER  
 STATE OF KENTUCKY  
 CATEGORY 6  
 EXPIRES 12/31/04  
 REG. NO. 44715

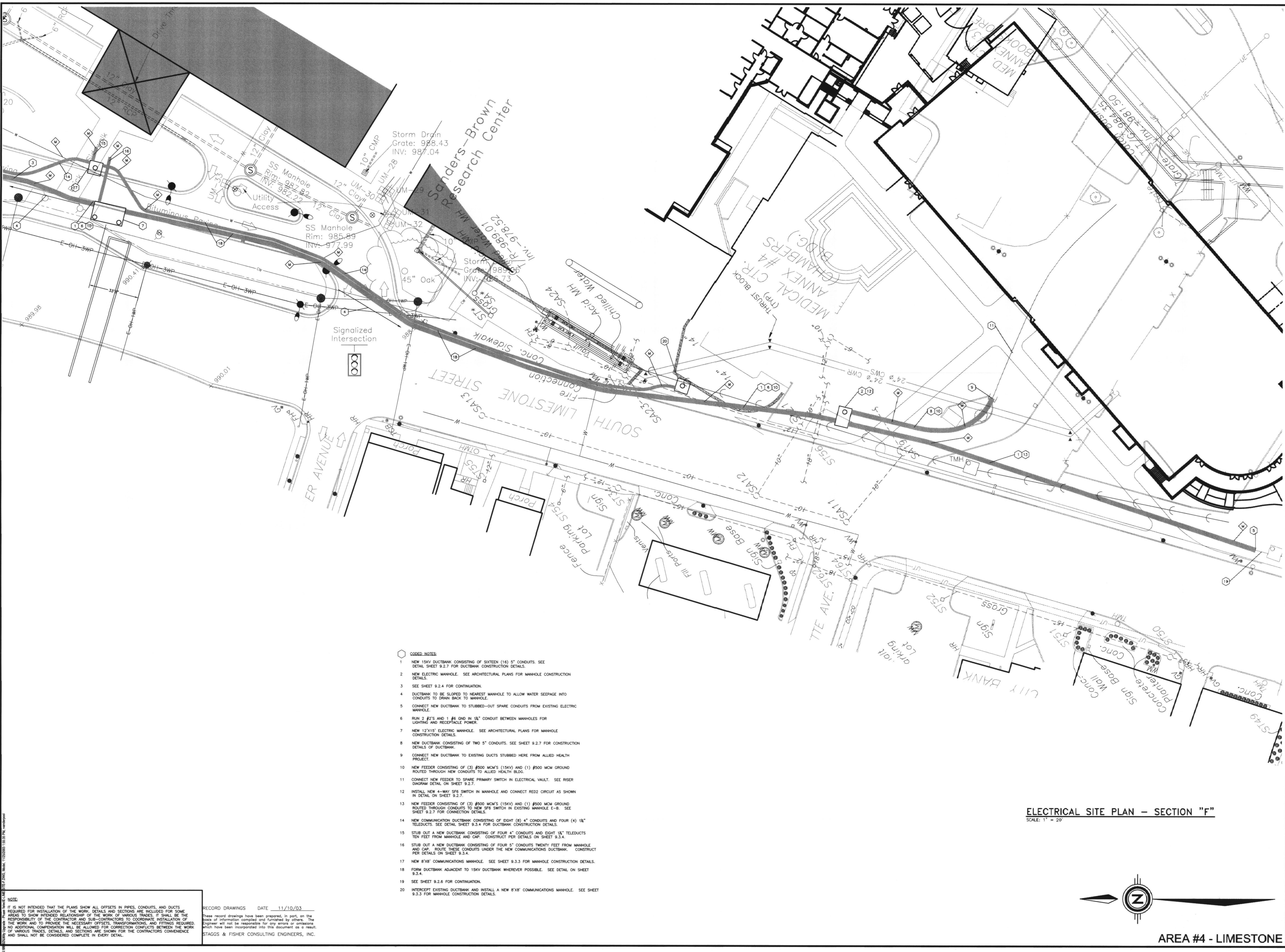
**ELECTRICAL SITE PLAN - SECTION "E"**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
 DATE: DECEMBER, 2000  
 DRAWN BY: WPW  
 CHECKED BY: GGC  
 REVISED:  
 DATE 6/21/01 REVISION #1  
 7/23/01 REVISION #2  
 8/2/01 REVISION #3  
 9/17/01 REVISION #4

SHEET NUMBER  
**9.2.4**

PROJECT NUMBER  
 99024.02

CAB # 174 C-2 255.14



- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 NEW ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  - 3 SEE SHEET 9.2.4 FOR CONTINUATION.
  - 4 DUCTBANK TO BE SLOPED TO NEAREST MANHOLE TO ALLOW WATER SEEPAGE INTO CONDUITS TO DRAIN BACK TO MANHOLE.
  - 5 CONNECT NEW DUCTBANK TO STUBBED-OUT SPARE CONDUITS FROM EXISTING ELECTRIC MANHOLE.
  - 6 RUN 2 #2'S AND 1 #6 GND IN 1 1/2" CONDUIT BETWEEN MANHOLES FOR LIGHTING AND RECEPTACLE POWER.
  - 7 NEW 12"X15" ELECTRIC MANHOLE. SEE ARCHITECTURAL PLANS FOR MANHOLE CONSTRUCTION DETAILS.
  - 8 NEW DUCTBANK CONSISTING OF TWO 5" CONDUITS. SEE SHEET 9.2.7 FOR CONSTRUCTION DETAILS OF DUCTBANK.
  - 9 CONNECT NEW DUCTBANK TO EXISTING DUCTS STUBBED HERE FROM ALLIED HEALTH PROJECT.
  - 10 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH NEW CONDUITS TO ALLIED HEALTH BLDG.
  - 11 CONNECT NEW FEEDER TO SPARE PRIMARY SWITCH IN ELECTRICAL VAULT. SEE RISER DIAGRAM DETAIL ON SHEET 9.2.7.
  - 12 INSTALL NEW 4-WAY SP6 SWITCH IN MANHOLE AND CONNECT RED2 CIRCUIT AS SHOWN IN DETAIL ON SHEET 9.2.7.
  - 13 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH CONDUITS TO NEW SP6 SWITCH IN EXISTING MANHOLE E-8. SEE SHEET 9.2.7 FOR CONNECTION DETAILS.
  - 14 NEW COMMUNICATION DUCTBANK CONSISTING OF EIGHT (8) 4" CONDUITS AND FOUR (4) 1 1/2" TELEDUCTS. SEE DETAIL SHEET 9.3.4 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 15 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 4" CONDUITS AND EIGHT 1 1/2" TELEDUCTS TEN FEET FROM MANHOLE AND CAP. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
  - 16 STUB OUT A NEW DUCTBANK CONSISTING OF FOUR 5" CONDUITS TWENTY FEET FROM MANHOLE AND CAP. ROUTE THESE CONDUITS UNDER THE NEW COMMUNICATIONS DUCTBANK. CONSTRUCT PER DETAILS ON SHEET 9.3.4.
  - 17 NEW 8'X8' COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.
  - 18 FORM DUCTBANK ADJACENT TO 15KV DUCTBANK WHEREVER POSSIBLE. SEE DETAIL ON SHEET 9.3.4.
  - 19 SEE SHEET 9.2.6 FOR CONTINUATION.
  - 20 INTERCEPT EXISTING DUCTBANK AND INSTALL A NEW 8'X8' COMMUNICATIONS MANHOLE. SEE SHEET 9.3.3 FOR MANHOLE CONSTRUCTION DETAILS.

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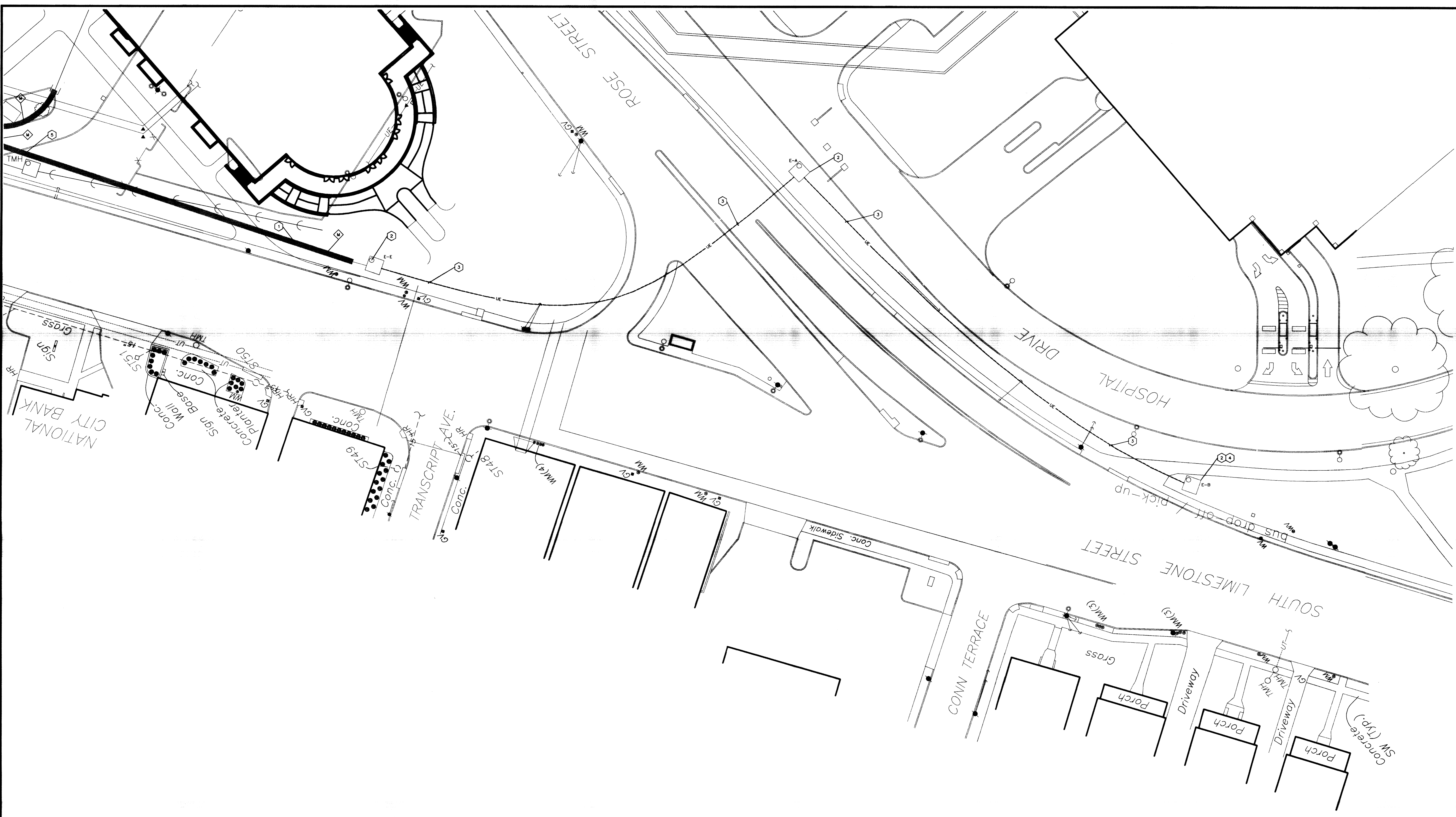
RECORD DRAWINGS DATE 11/10/03  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.  
 STAGGS & FISHER CONSULTING ENGINEERS, INC.

**ELECTRICAL SITE PLAN - SECTION "F"**  
 SCALE: 1" = 20'



**AREA #4 - LIMESTONE**

<b>CJMW</b>	
CHRISMAN · MILLER · WOODFORD · INC. ARCHITECTURE · ENGINEERING · PLANNING · INTERIORS · LANDSCAPE ARCHITECTURE 305 S. BRADLEY · (606) 254-2622 · LEXINGTON, KENTUCKY 40517	
<b>SF</b>	Staggs & Fisher Consulting Engineers, Inc. 2304 Lockwood Drive Lexington, Kentucky 40517
ELECTRICAL SITE PLAN - SECTION "F" UTILITY UPGRADE - PHASE 1 UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY	
DATE: DECEMBER 2000	PROJECT TITLE
DRAWN BY: WVP	
CHECKED BY: GGC	
REVISION:	
DATE:	
SHEET NUMBER <b>9.2.5</b>	
PROJECT NUMBER 99024.02	
SHEET NUMBER 3174	
SHEET NUMBER C-2	

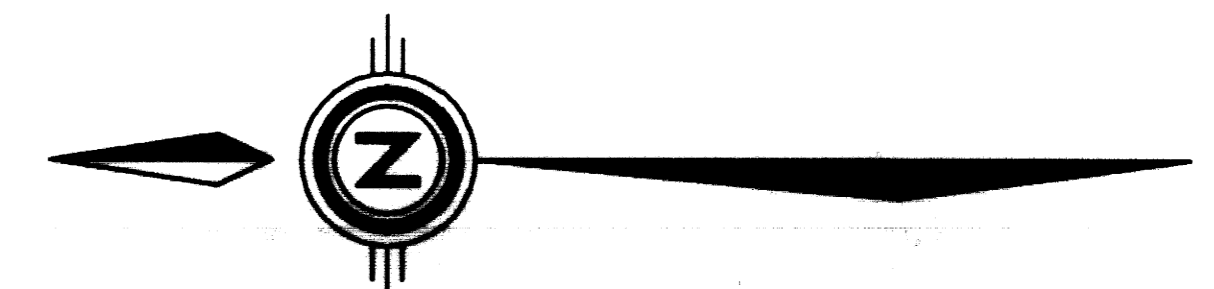


**ELECTRICAL SITE PLAN - SECTION "G"**  
 SCALE: 1" = 20'

- CODED NOTES:**
- 1 NEW 15KV DUCTBANK CONSISTING OF SIXTEEN (16) 5" CONDUITS. SEE DETAIL SHEET 9.2.7 FOR DUCTBANK CONSTRUCTION DETAILS.
  - 2 EXISTING ELECTRIC MANHOLE.
  - 3 NEW FEEDER CONSISTING OF (3) #500 MCM'S (15KV) AND (1) #500 MCM GROUND ROUTED THROUGH EXISTING SPARE CONDUITS.
  - 4 INSTALL NEW 4-WAY SFS SWITCH INTO EXISTING ELECTRIC MANHOLE E-B. CUT AND TERMINATE THE GREEN CIRCUIT ONTO NEW SWITCH. TERMINATE NEW RED FEEDER FROM NEW LIMESTONE DUCTBANK VIA EXISTING MANHOLES E-E AND E-A ONTO NEW SWITCH. SEE DETAIL SHEET 9.2.7 FOR SWITCH CONNECTION DETAILS.
  - 5 SEE SHEET 9.2.5 FOR CONTINUATION.

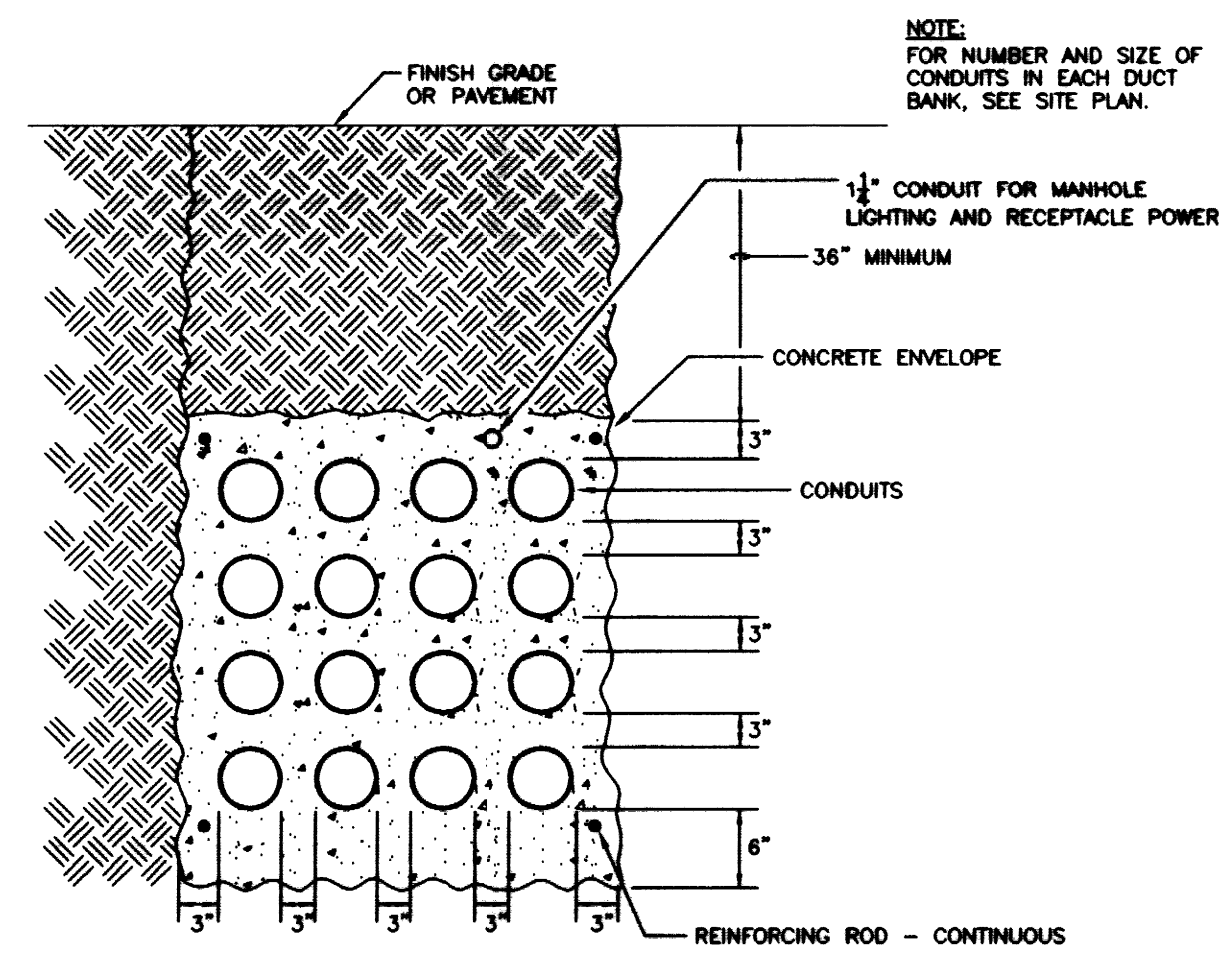
**NOTE:**  
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 STAGGS & FISHER CONSULTING ENGINEERS, INC.

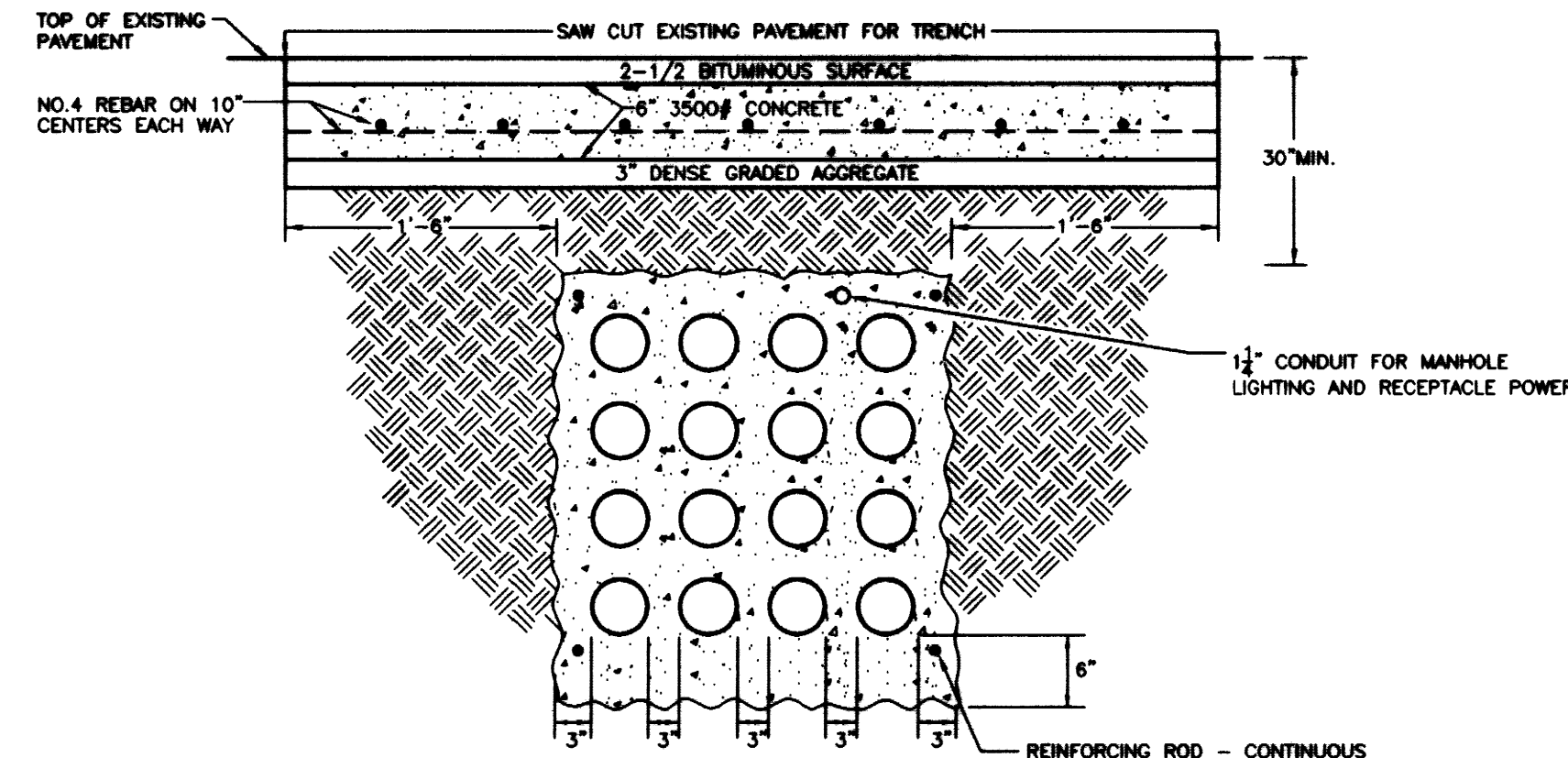


**AREA #4 - LIMESTONE**

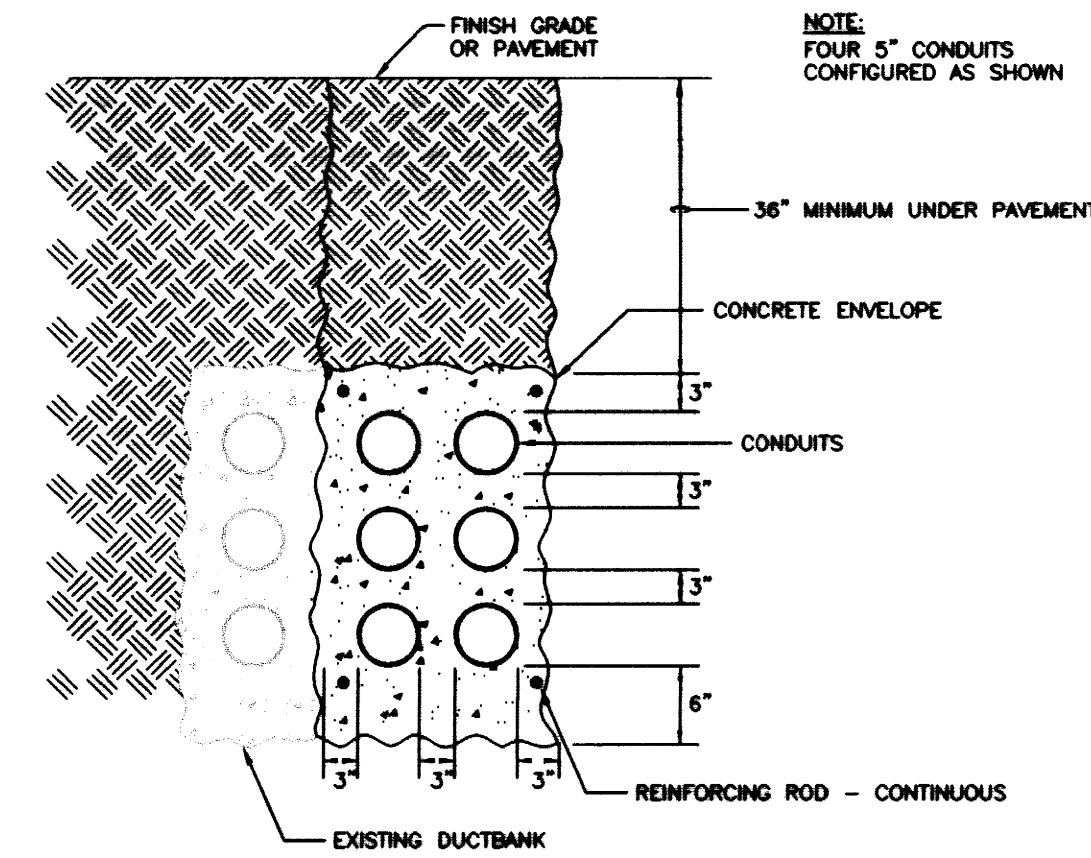
 CHRISTMAN · MILLER · WOODFORD · INC. 305 BRIDGEMAN PLANNING CENTER 305 BRIDGEMAN PLANNING CENTER LEWISBURG, KENTUCKY 40356	 Stagg and Fisher Consulting Engineers, Inc. 3050 Leathers Drive Lexington, Kentucky 40517		SHEET NUMBER <b>9.2.6</b>
			PROJECT NUMBER 99024.02
ELECTRICAL SITE PLAN - SECTION "G" UTILITY UPGRADE - PHASE 1 UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY			PROJECT TITLE UTILITY UPGRADE - PHASE 1 UNIVERSITY OF KENTUCKY LEXINGTON, KENTUCKY
DATE: DECEMBER, 2000 DRAWN BY: WPV CHECKED BY: GOC REVISED: _____ DATE: _____			SHEET NUMBER <b>9.2.6</b>
SHEET NUMBER <b>9.2.6</b>			PROJECT NUMBER 99024.02



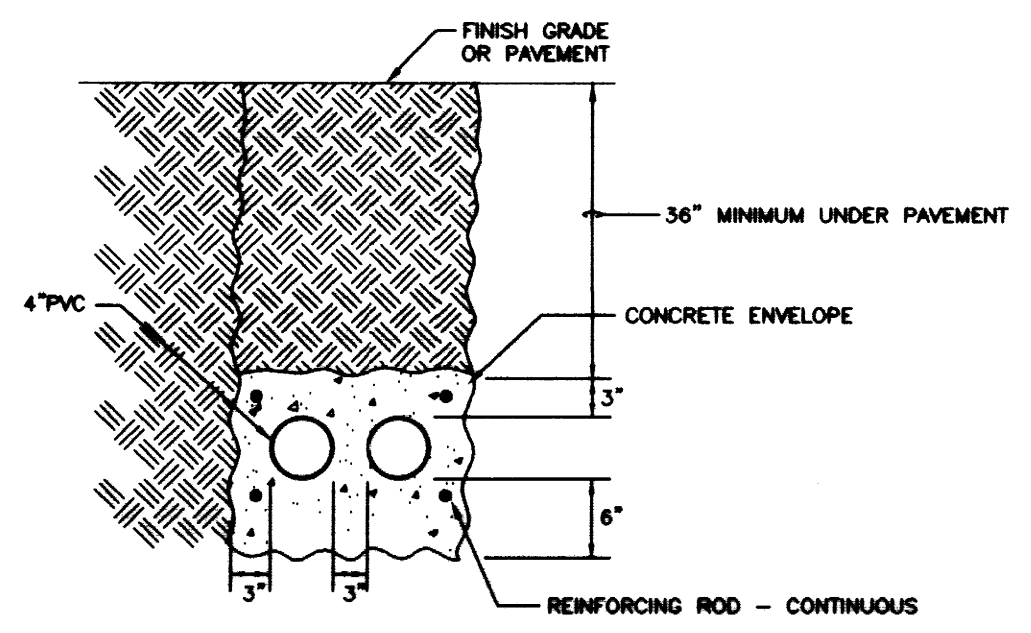
**TYPICAL PRIMARY CONDUIT INSTALLATION DETAIL**  
NO SCALE



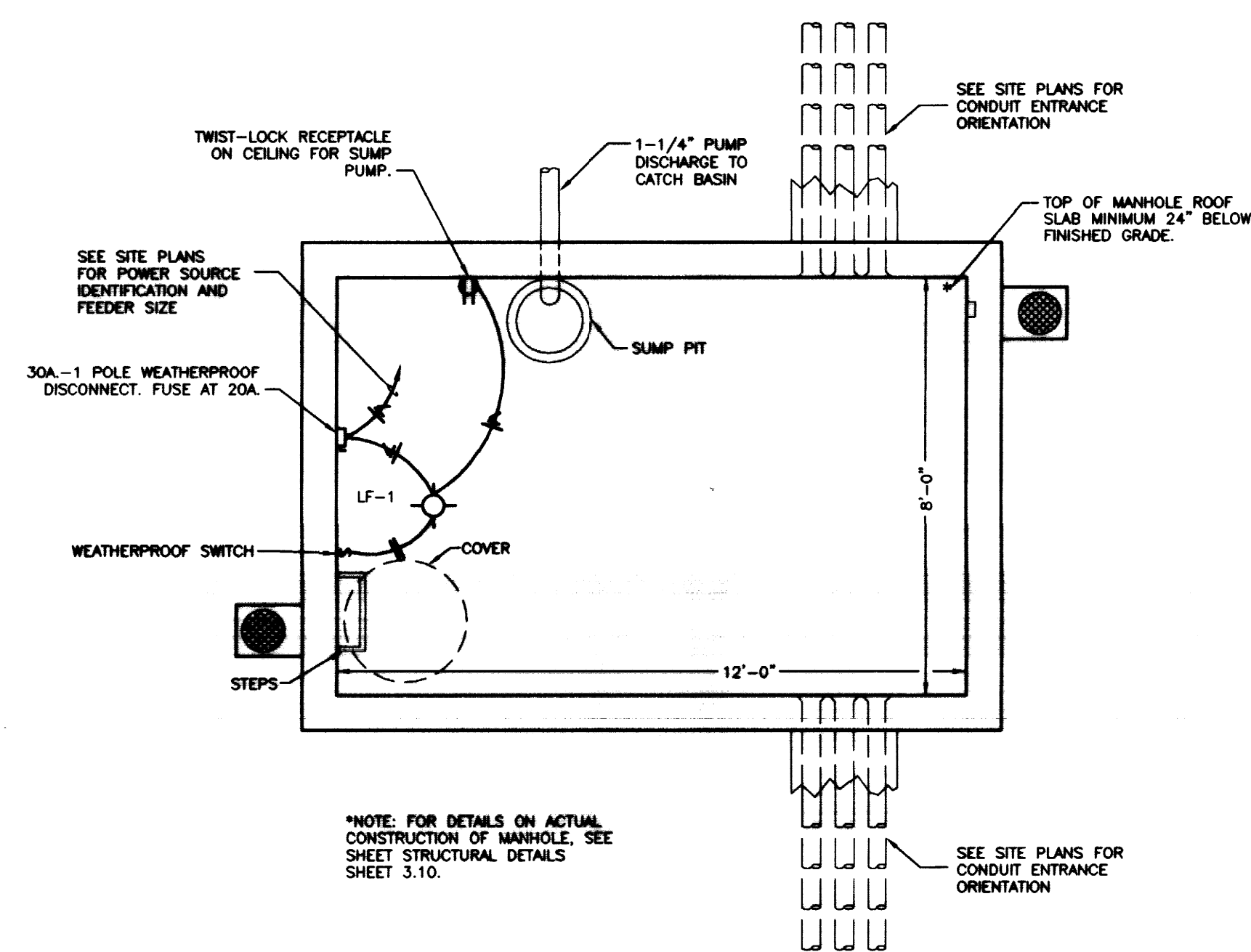
**TYPICAL INSTALLATION DETAIL OF DUCTBANK UNDER ROADWAY**  
NO SCALE



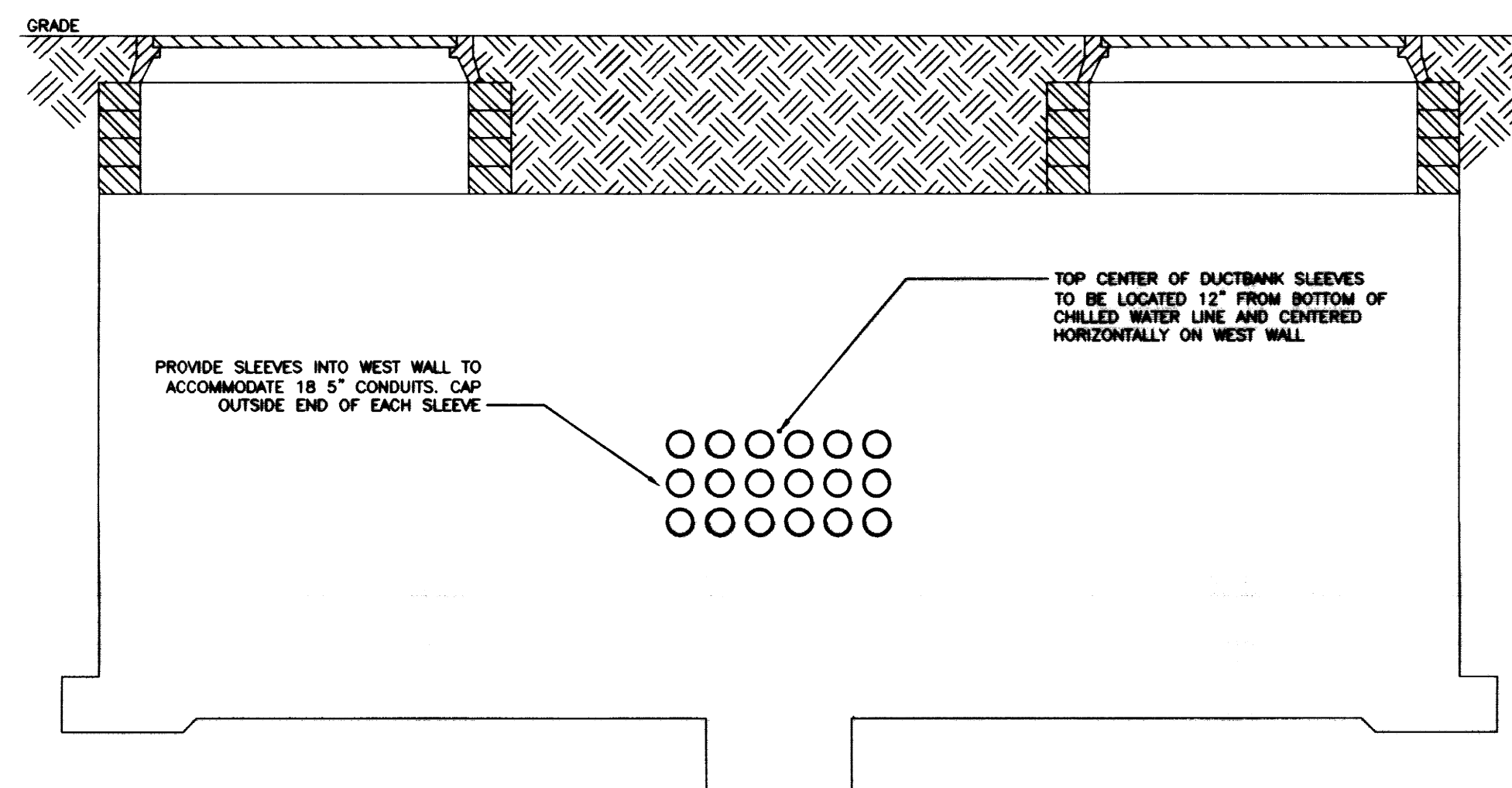
**ADDITIONAL DUCTBANK INSTALLATION DETAIL BETWEEN MANHOLES 102 AND 103**  
NO SCALE



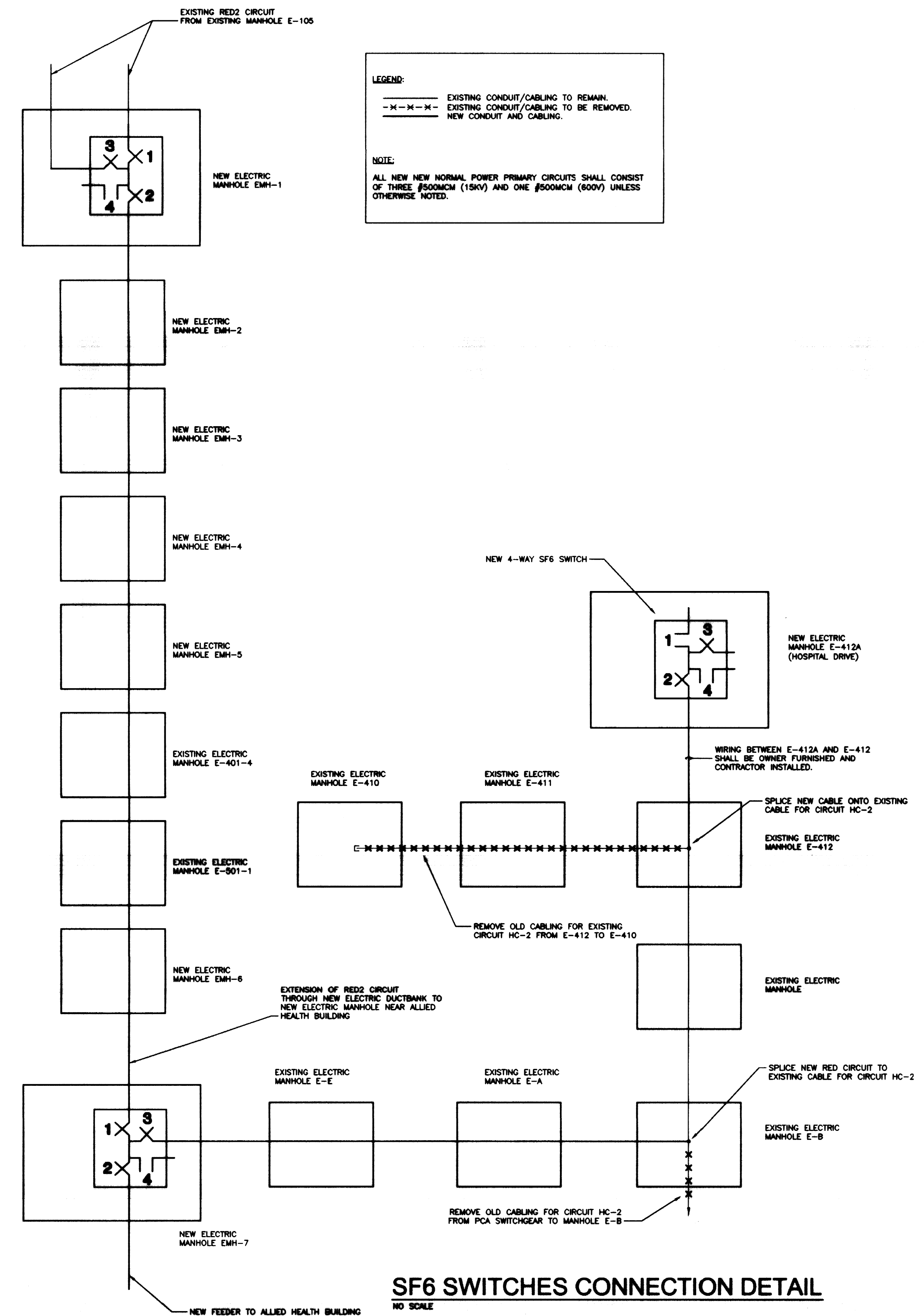
**ALLIED HEALTH PRIMARY CONDUIT INSTALLATION DETAIL**  
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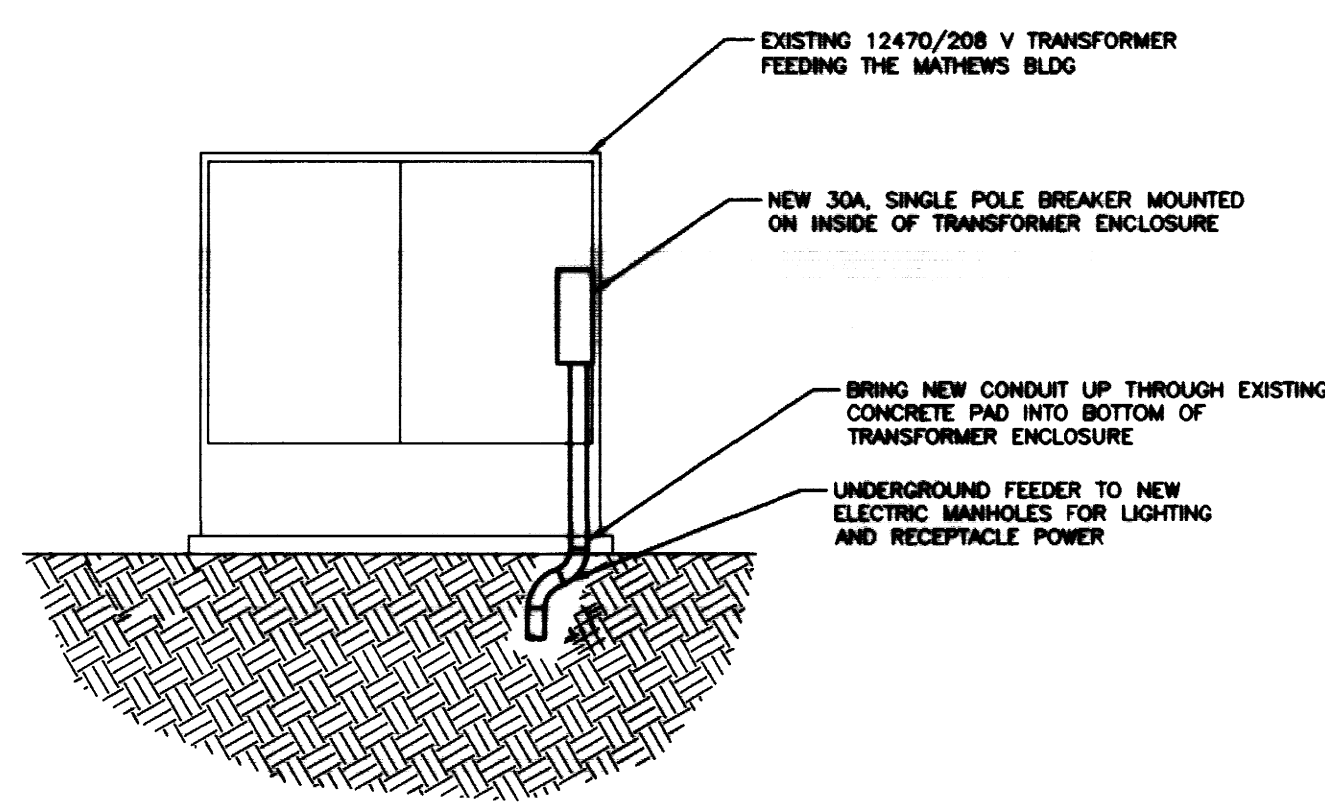
**PUMP, LIGHT, & ELECTRIC LOCATIONS IN MANHOLE DETAIL**  
NO SCALE



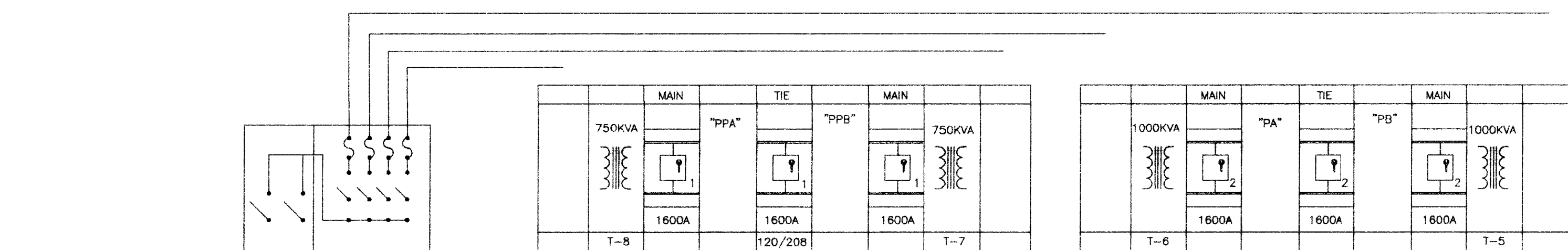
**LOCATION OF SLEEVES FOR FUTURE DUCTBANK ON WEST WALL OF NEW 10' X 18' ELECTRIC MANHOLE**  
NO SCALE



**SF6 SWITCHES CONNECTION DETAIL**  
NO SCALE



**MANHOLE ELECTRIC POWER DISCONNECT MOUNTING DETAIL**  
SCALE: 1/4" = 1'-0"



**ALLIED HEALTH PRIMARY SWITCHGEAR CONNECTION DETAIL**  
NO SCALE

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STAGGS & FISHER CONSULTING ENGINEERS, INC.

**CJM**  
CHRISMAAN MILLER WOODFORD INC.  
ARCHITECTURE ENGINEERING PLANNING INTERIORS LANDSCAPE ARCHITECTURE  
208 S. BROADWAY LEXINGTON, KENTUCKY 40517 (606) 254-2623

**SF**  
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208 S. Broadway  
Lexington, Kentucky 40517

STATE OF KENTUCKY  
REGISTERED PROFESSIONAL ENGINEER  
No. 14715  
EXPIRES 12/31/04

UTILITY UPGRADE - PHASE 1  
UNIVERSITY OF KENTUCKY  
LEXINGTON, KENTUCKY

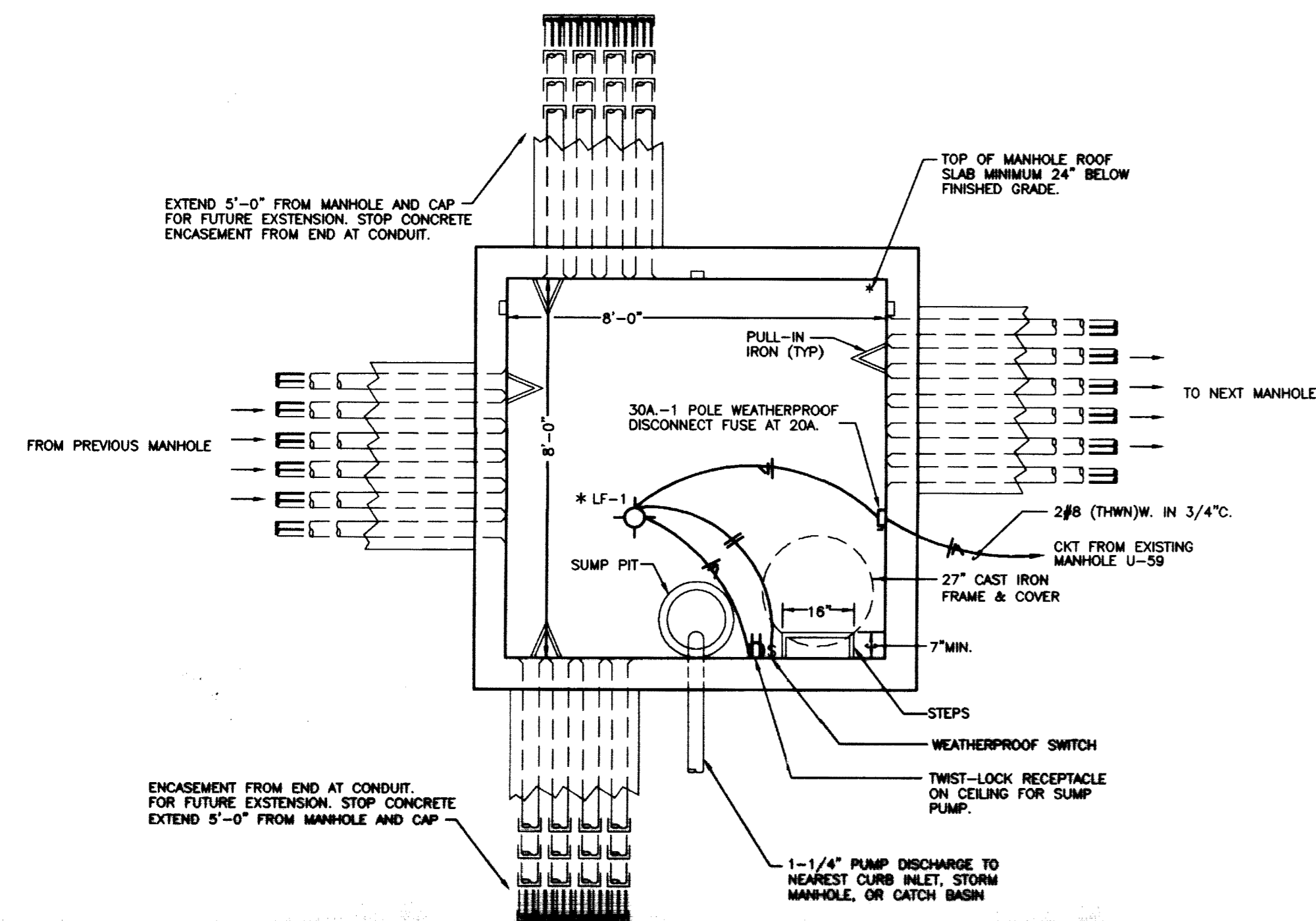
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DATE: DECEMBER, 2000  
DRAWN BY: WPW  
CHECKED BY: ggc  
REVISION:  
DATE 11/11/01 ADDENDUM #  
8/2/01 REVISION #1  
10/16/01 REVISION #2

SHEET NUMBER  
**9.2.7**

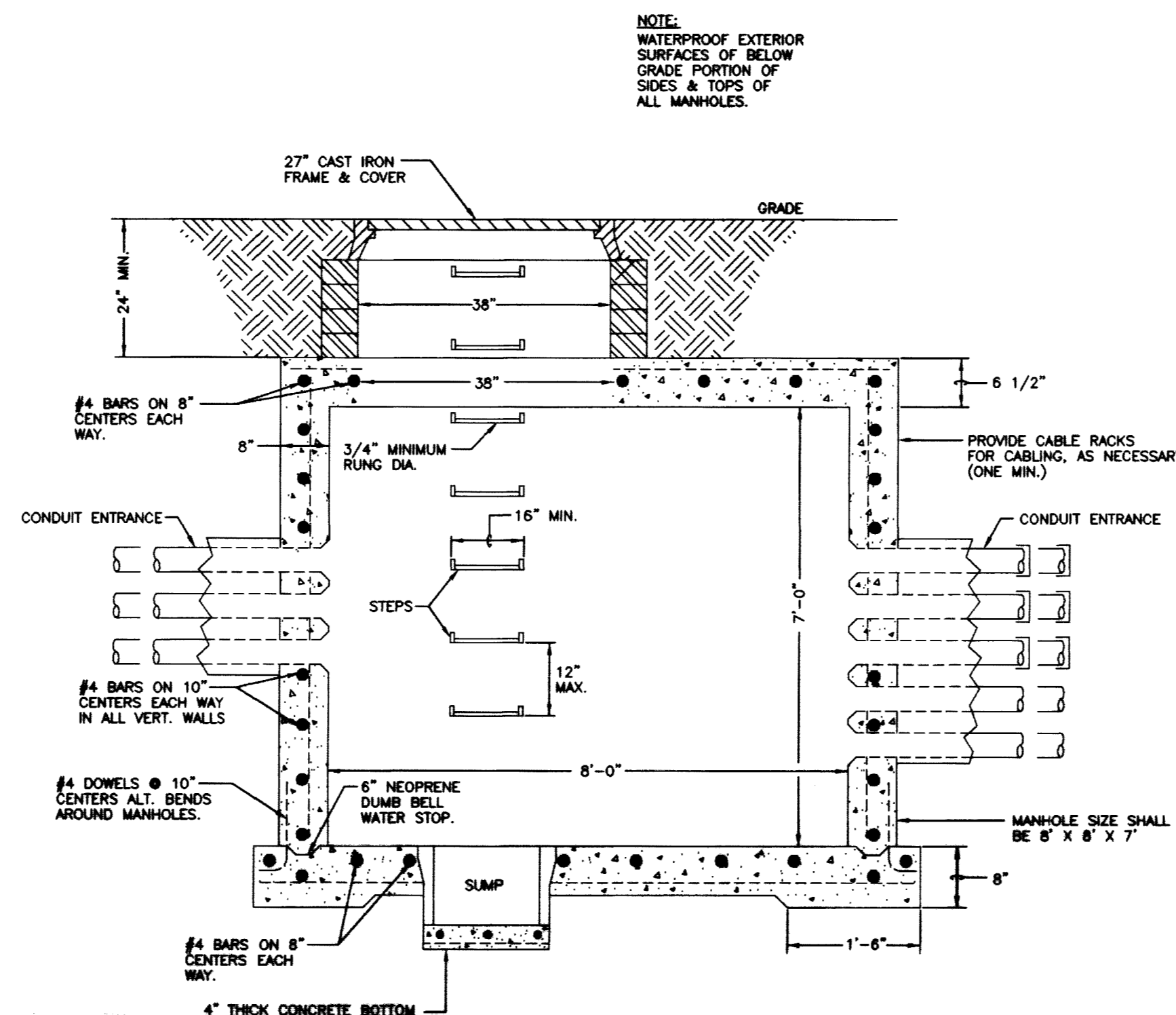
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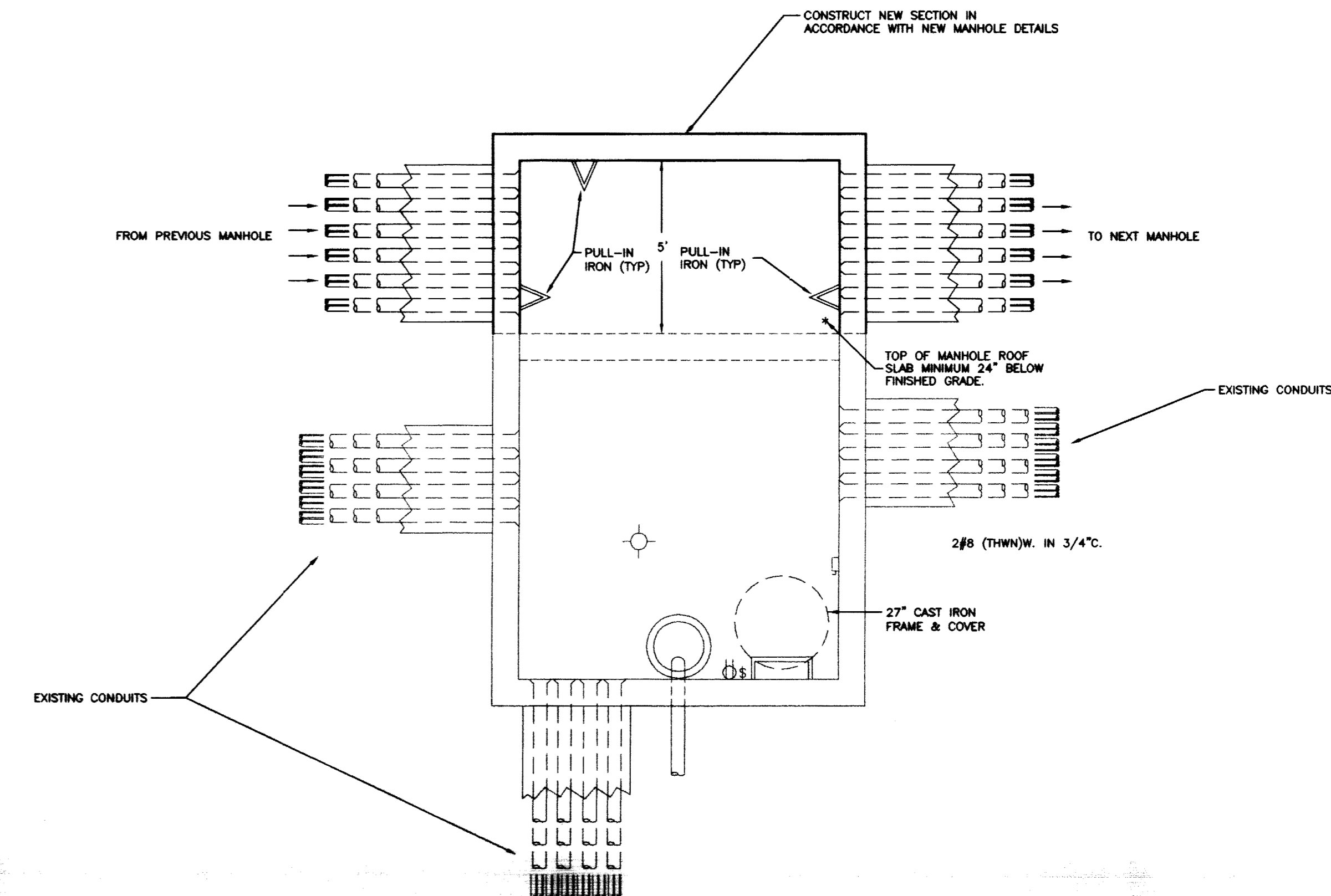


**PLAN - NEW COMMUNICATION MANHOLE**  
NO SCALE

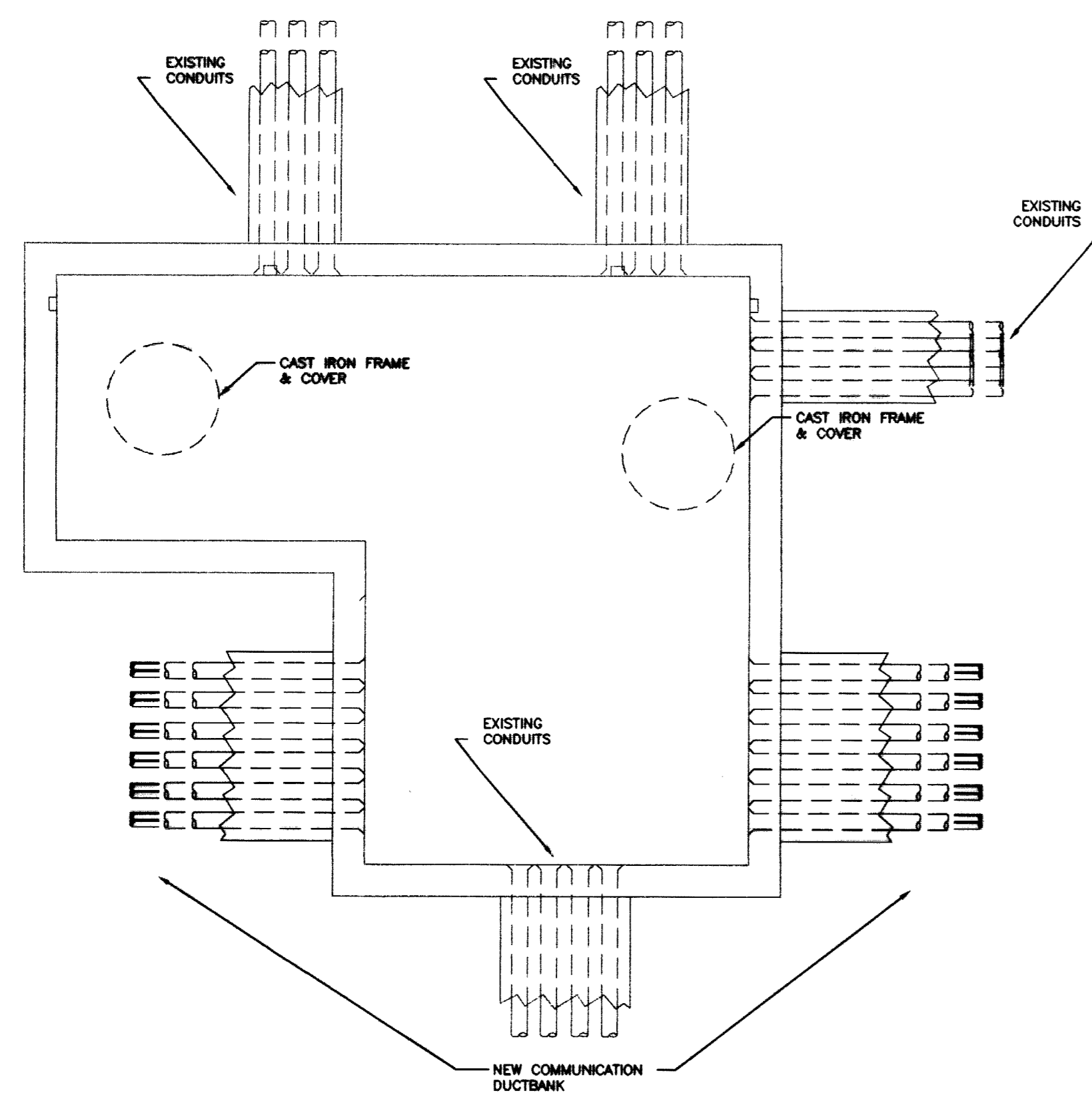
\* SEE SHEET 9.1.7 FOR LIGHTING FIXTURE SCHEDULE.



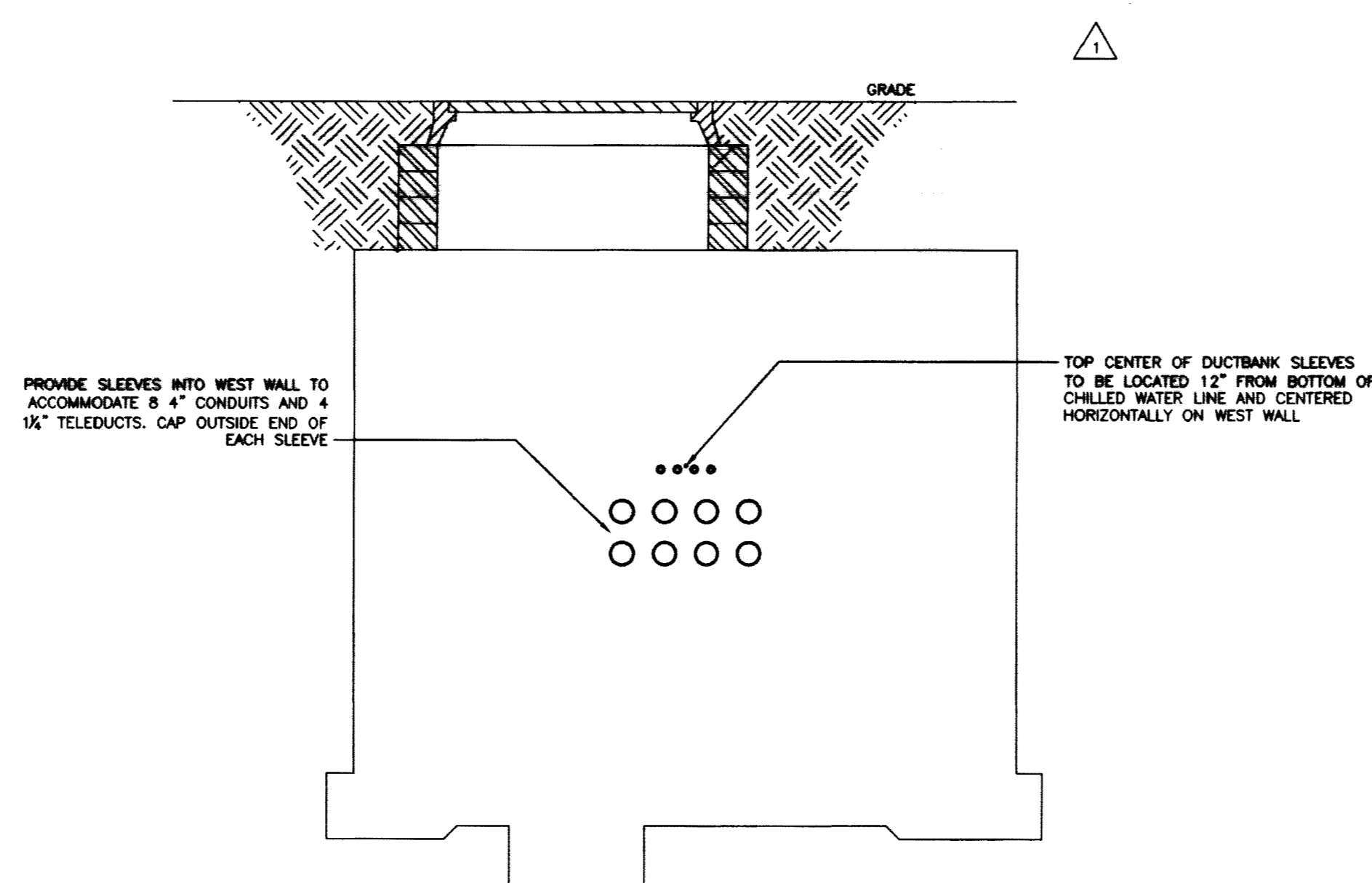
**SECTION THROUGH NEW COMMUNICATION MANHOLE**  
NO SCALE



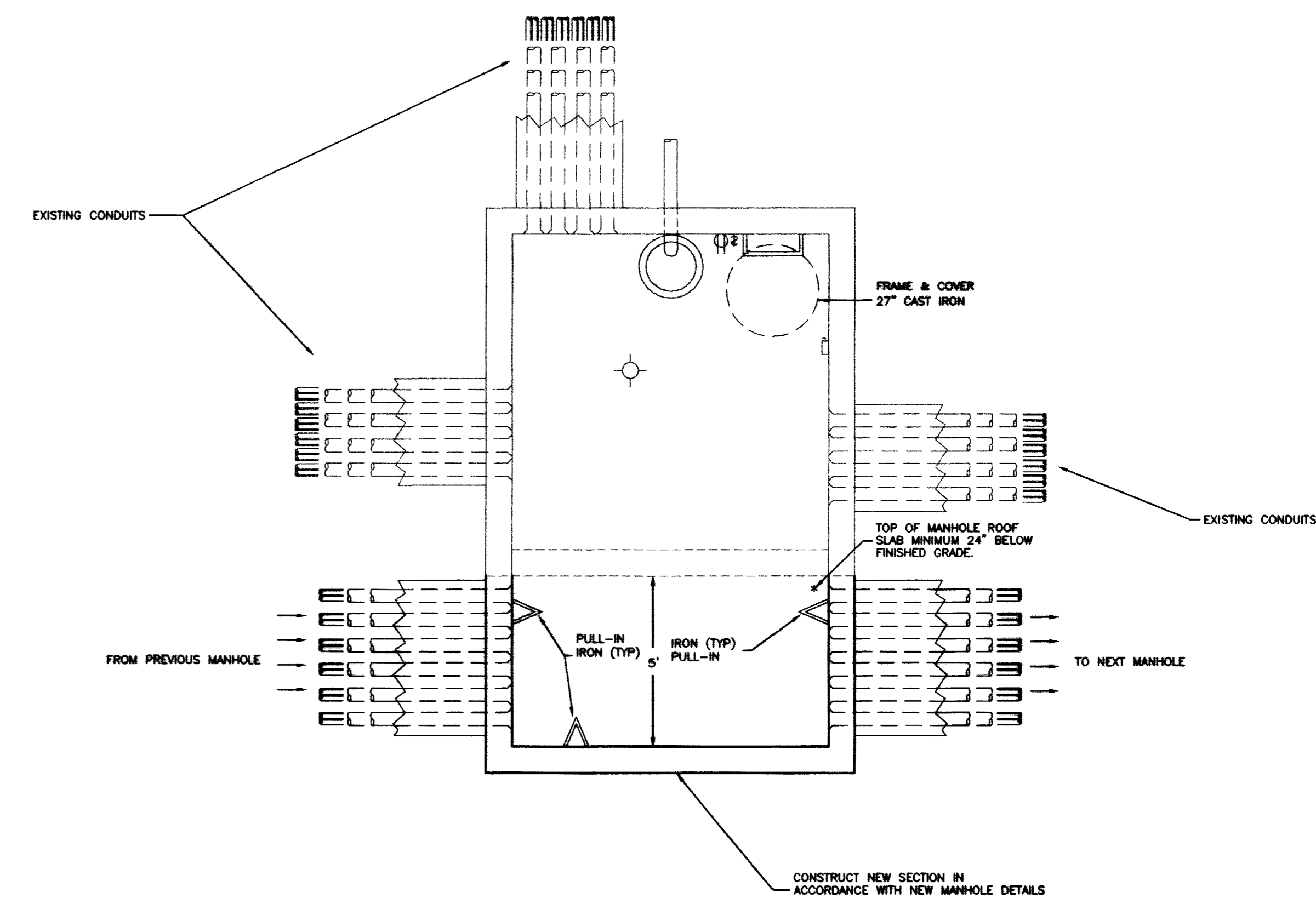
**PLAN A - EXPANSION OF EXISTING COMMUNICATION MANHOLE**  
NO SCALE



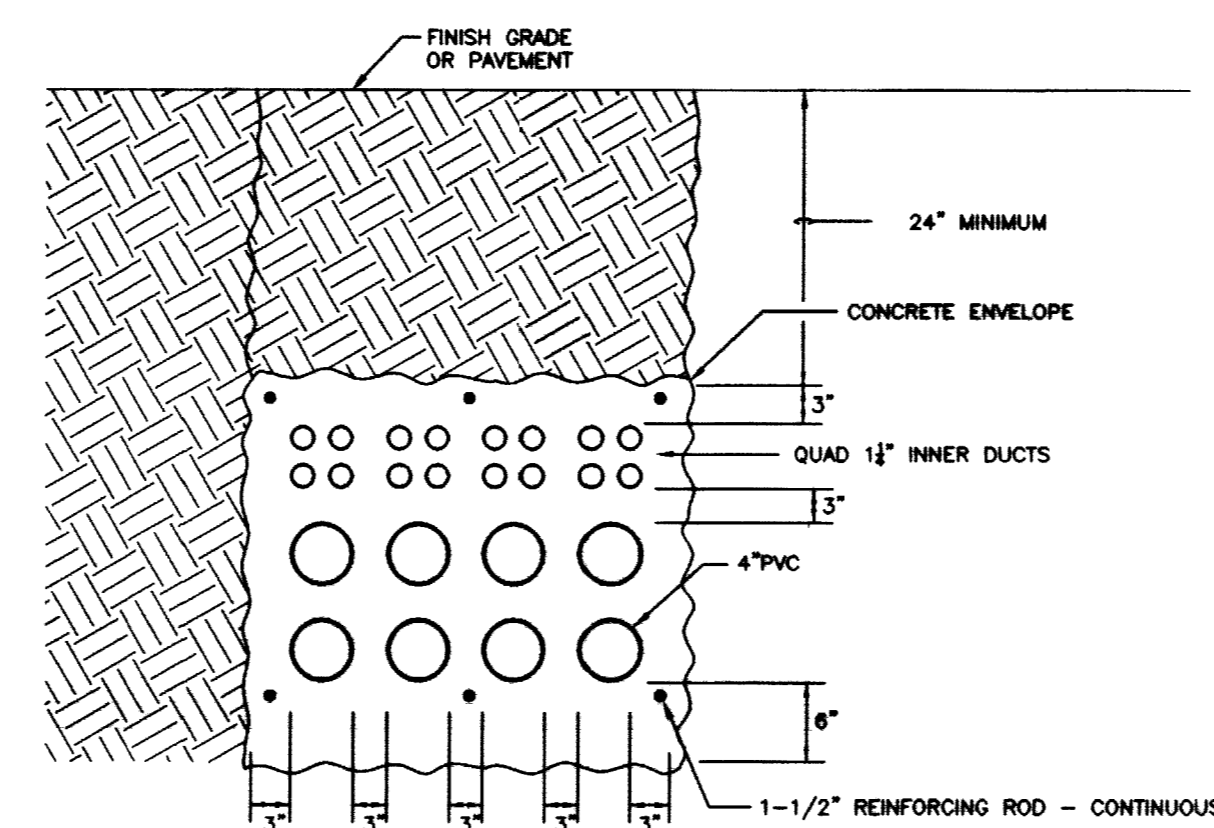
**PLAN - EXISTING COMMUNICATION MANHOLE U-34/26**  
NO SCALE



**LOCATION OF SLEEVES FOR FUTURE DUCTBANK ON WEST WALL OF NEW COMMUNICATIONS MANHOLE IN FRONT OF KY CLINIC**  
NO SCALE



**PLAN B - EXPANSION OF EXISTING COMMUNICATION MANHOLE**  
NO SCALE



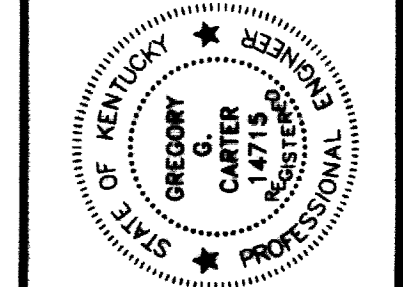
**COMMUNICATION DUCTBANK INSTALLATION DETAIL FOR DUCTBANK BETWEEN KY CLINIC MANHOLE AND SANDERS-BROWN MANHOLE**  
NO SCALE

RECORD DRAWINGS DATE 11/10/03  
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**CJM**  
CHRISTIAN MILLER WOODFORD, INC.  
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305 S. BROADWAY LEXINGTON, KENTUCKY 40517  
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**SF**  
Staggs and Fisher  
Consulting Engineers, Inc.  
305 S. BROADWAY LEXINGTON, KENTUCKY 40517  
(606) 254-6622



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DESIGN/EXAMINER: [ ] DATE: [ ]  
CHECKED BY: [ ] DATE: [ ]  
DRAWN BY: [ ] DATE: [ ]  
PROJECT NO. 99024.02

**ELECTRICAL DETAILS**  
**UTILITY UPGRADE - PHASE 1**  
**UNIVERSITY OF KENTUCKY**  
**LEXINGTON, KENTUCKY**

SHT. PROJECT TITLE  
DATE: DECEMBER 2000  
DRAWN BY: wpw  
CHECKED BY: ggc  
REVISED:  
DATE: 8/2/01 REVISION #1  
SHEET NUMBER  
**9.3.3**  
PROJECT NUMBER  
99024.02